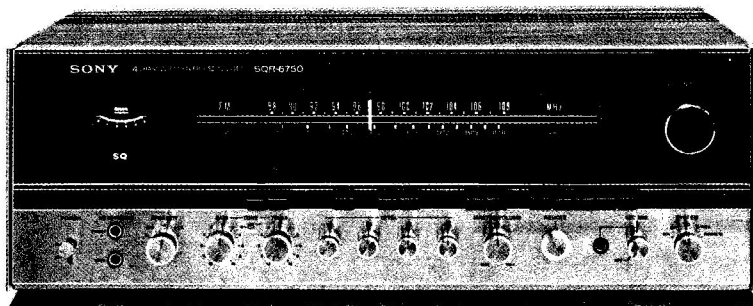


SQR-6750

USA Model
Canada Model
E Model



This service manual replaces all of those issued previously:
USA Model (4G0615-1)
USA-Canada Model (4J0610-1)
USA Model Supplement No. 1 (Feb. 1975).
Discard these service manuals.

4 CHANNEL RECEIVER

SPECIFICATIONS

FM SECTION

- Frequency range:** 87.5 MHz~108 MHz
- Sensitivity:** 2.2 μ V (6.5 dB), IHF
1.7 μ V (4.5 dB), S/N = 30 dB
- Capture ratio:** 1.5 dB
- Signal-to-noise ratio:** 70 dB
- Frequency response:** 40 Hz ~ 15,000 Hz $\pm \frac{1}{3}$ dB
- Stereo separation:** Better than 38 dB at 400 Hz
- Harmonic distortion:** mono 0.3% at 400 Hz
100% (75 kHz deviation)
modulation
stereo 0.6% at 400 Hz
100% (75 kHz deviation)
modulation

AM SECTION

- Frequency range:** 530 kHz~1,605 kHz
- Sensitivity:** 250 μ V/m (48 dB/m) at 1,000 kHz
built-in antenna
100 μ V (40 dB) at 1,000 kHz,
external antenna
- Signal-to-noise ratio:** 50 dB at 50 μ V/m
- Harmonic distortion:** 0.5% at 50 mV/m, 400 Hz

SQ DECODER SECTION

- Harmonic distortion:** 0.2% at 250 mV, 2 kHz
- Frequency response:** 20 Hz ~ 20,000 Hz ± 3 dB
- Signal-to-noise ratio:** SQ, R-MTX, 2 $\rightarrow$ 4:
(short circuited) 80 dB at 250 mV, weighting
network A

POWER AMPLIFIER SECTION

	4CH	high power 2CH
Continuous RMS power output* at 20 Hz~20 kHz. (less than 0.2% THD)	20W x 4 (8 Ω)	50W x 2 (8 Ω)
harmonic distortion at rated output	less than 0.2%	less than 0.5%

* All channels driven simultaneously

GENERAL

- Power requirements:** 120 V ac 60 Hz (USA-Canada Model)
100-120-220-240 V ac 50/60 Hz (E Model)
- Power consumption:** 190 W (USA Model)
370 VA (Canada Model)
500 W (E Model)
- Dimensions:** 520 (w) x 189 (h) x 370 (d) mm
20 $\frac{1}{2}$ (w) x 7 $\frac{1}{2}$ (h) x 14 $\frac{5}{8}$ (d) inches
- Net weight:** 16.6 kg (36 lb 10 oz)
- Shipping weight:** 19.7 kg (43 lb 7 oz)

SONY®

SERVICE MANUAL

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■	USA Model (serial no. 800,001~802,200) Canada Model
□	USA Model (serial no. 802,201~) E Model

4-CHANNEL RECEIVER

SQR-6750

US Model

Serial No. 802,201 and later

SUPPLEMENT

No. 2

August, 1977

Subject: SQ Separation Adjustment

The modification in SQ decoder circuit is illustrated on the supplement No. 1, but the new SQ separation adjustment procedures are not described. This supplement updates the service manual to include the adjustment procedure change.

File this supplement with service manual and supplement No. 1.

SONY®
SERVICE MANUAL

SQ SEPARATION ADJUSTMENT

Note: To perform this adjustment, separate the SQ decoder board from the chassis (leave these connected) and turn the circuit board over so that its component side faces toward you.

Signal Modes of SQ Checker:
LF = left front
RF = right front
LB = left back
RB = right back
CF = center front
CB = center back

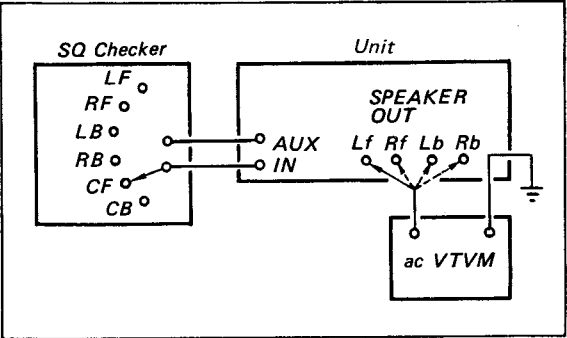


Fig. 1. Signal Modes of SQ Checker

1. Switch Setting:
FUNCTION switch: AUX
SYSTEM switch: SQ
2. Remove the WHT lead ✖ on the SQ decoder board. (See Fig. 2)
3. Connect the ac VTVM to LB speaker terminal.
4. Set the signal mode of the SQ checker to CF, and feed 2 kHz/-10 dB signal to AUX IN of the unit.
5. Adjust the MASTER VOLUME of the unit so that the ac VTVM reads 1 watt (+11.2 dB).
6. Adjust RT601 so that the output level at LB speaker terminal drops 0.1 dB when short-circuiting C624 with a jumper wire.
7. After adjustment, connect the WHT lead again removed at step 2 and remove the jumper wire connected at step 6.
8. Check the cross-talk levels at each terminal (LF, RF, LB and RB) according to the table below.

SQ CROSS-TALK LEVELS [Relative to the value obtained at (*)]

Speaker Terminal \ Signal Mode of SQ Checker	Lf	Rf	Lb	Rb
LF	*	-30 dB or less	-11 dB	-11 dB
RF	-30 dB or less	*	-11 dB	-11 dB
LB	-13 dB	-13 dB	*	-9 dB
RB	-13 dB	-13 dB	-9 dB	*
CF	*	*	-13 dB	-13 dB
CB	-11 dB	-11 dB	*	*

* +11.2 dB as previously set in step 5.

SQ Decoder Board

— Conductor Side —

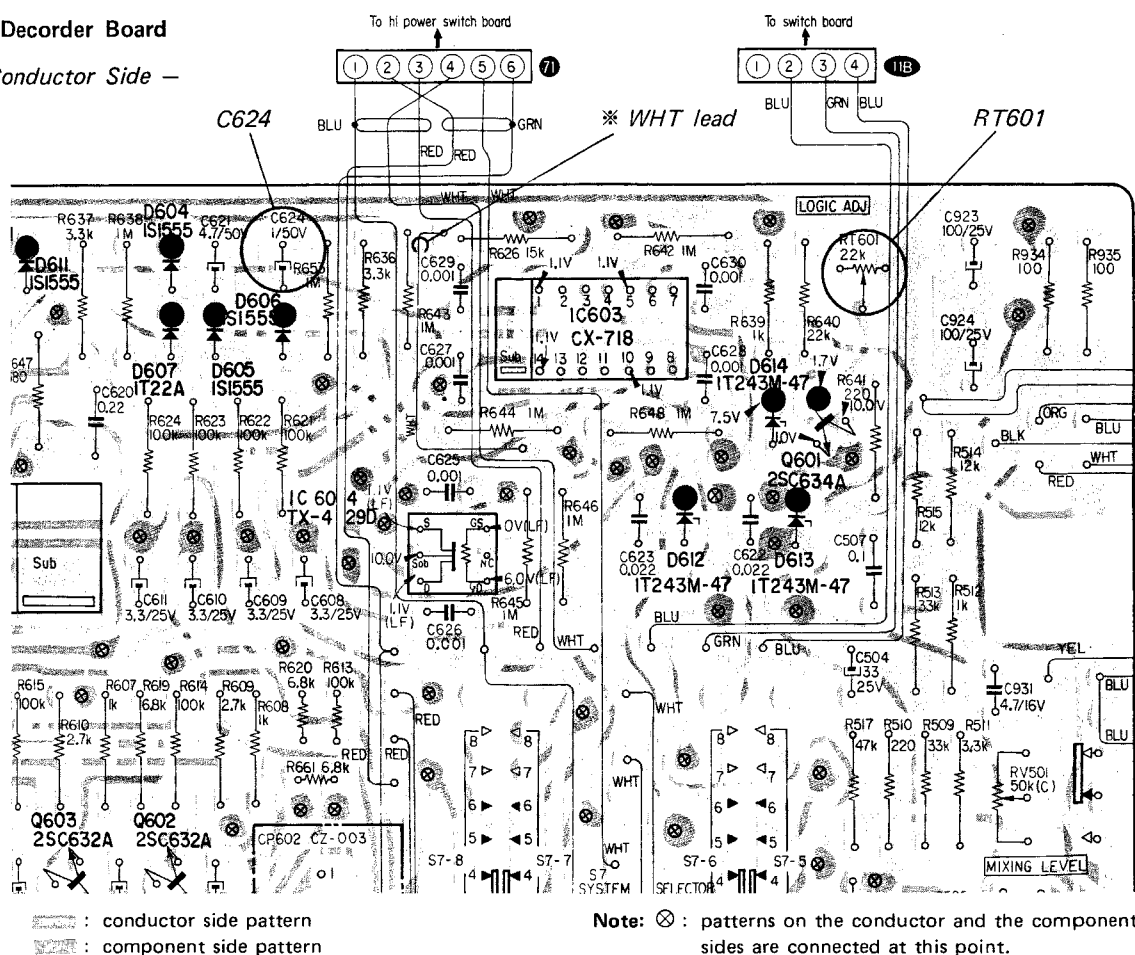


Fig. 2. SQ Separation Adjustment Location

SQR-6750

SUPPLEMENT No. 2

Serial No. 802,201 and later

Sony Corporation

© 1977

— 4 —

9-958-001-82

77H0632-1
Printed in Japan

SECTION 1 TECHNICAL DESCRIPTION

1-1. SPECIFICATIONS

FM Section

Frequency range: 87.5 MHz ~ 108 MHz

Antenna terminals: 300 Ω balanced
75 Ω unbalanced

Intermediate frequency: 10.7 MHz

Sensitivity: 2.2 μ V (6.5 dB), IHF
1.7 μ V (4.5 dB) S/N = 30 dB

Capture ratio: 1.5 dB

Selectivity: 50 dB, IHF

Signal-to-noise ratio: 70 dB

Frequency response: 40 Hz ~ 15,000 Hz $\pm 1/3$ dB

Stereo separation: Better than 38 dB at 400 Hz

Harmonic distortion: Mono 0.3 % at 400 Hz,
100 % (75 kHz deviation) modulation
Stereo 0.6 % at 400 Hz,
100 % (75 kHz deviation) modulation

Image rejection: 70 dB

IF rejection: 90 dB

Spurious rejection: 90 dB

A-m suppression: 50 dB

Muting level: 7 μ V

FM discriminator output: 150 mV at 400 Hz (75 kHz deviation modulation)
Impedance 3 k Ω

AM Section

Frequency range: 530 kHz ~ 1,605 kHz

Antenna: built-in ferrite-rod antenna and external antenna terminal

Intermediate frequency: 455 kHz

Sensitivity: 250 μ V/m (48 dB/m) at 1,000-kHz, built-in antenna
100 μ V (40 dB) at 1,000 kHz, external antenna

Signal-to-noise ratio: 50 dB at 50 mV/m

Harmonic distortion: 0.5 % at 50 mV/m, 400 Hz

Image rejection: 50 dB at 1,000 kHz

IF rejection: 40 dB at 1,000 kHz

SQ Decoder Section

Harmonic distortion: 0.2 % at 250 mV, 2 kHz

Frequency response: 20 Hz ~ 20,000 Hz ± 3 dB

Signal-to-noise ratio: SQ, R-MTX, 2 $\rightarrow$ 4:
(short circuited) 80 dB at 250 mV
(weighting network A)

Preamplifier Section

Input sensitivity and impedance:

	Maximum* sensitivity	Impedance
PHONO-1	2.5 mV	50 k Ω
PHONO-2	5.0 mV	50 k Ω
MIC	1.5 mV	50 k Ω
AUX 2-CH TAPE 1, 2 REC/PB (input) DISCRETE IN	250 mV	50 k Ω

* Measured with specified RMS output power into 8 Ω loads (four channels driven simultaneously) at 1 kHz.

Output voltage and impedance: REC OUT 250 mV, 10 k Ω
REC/PB (output) 30 mV, 82 k Ω

Frequency response;

PHONO 1 } RIAA equalization
 PHONO 2 } curve ± 1 dB
 MIC 100 Hz~10,000 Hz ± 3 dB
 AUX, TAPE
 REC/PB (input) } 10 Hz~50,000 Hz
 DISCRETE IN } ± 3 dB

Tone control:

BASS ± 10 dB at 100 Hz
 TREBLE ± 10 dB at 10 kHz

Filters:

HIGH 6 dB/oct above 8 kHz

Loudness control:

+10 dB at 50 Hz,
 +4 dB at 10 kHz
 (volume control attenuation:
 30 dB)

Signal-to-noise ratio:

	S/N	Weighting network	Input level
PHONO 1	70 dB	A	2.5 mV
PHONO 2	70 dB	A	5.0 mV
MIC	65 dB	B	1.5 mV
AUX 2CH TAPE 1,2 REC/PB (input) DISCRETE IN	90 dB*	A	250 mV

* Power amp included

Power Amplifier Section

	4-CH operation	High power 2-CH operation
Continuous RMS power output* at 20Hz~20kHz. (less than 0.2% THD)	20W $\times$ 4 (8 Ω)	50W $\times$ 2 (8 Ω)
Harmonic distortion at rated output	less than 0.2%	less than 0.5%
Harmonic distortion	less than 0.1% at 1W output	less than 0.1% at 1W output
Residual noise	0.05 μ W (A network)	0.1 μ W (A network)
IM distortion (60Hz: 7kHz=4:1)	less than 0.2% at rated output less than 0.1% at 1W output	
Damping factor	25 at 1kHz, 8 Ω	

* All channels driven simultaneously

General

System:

SQ decoder with front/back and waveform comparator logic circuits, regular matrix decoder Superheterodyne fm/a-m tuner Direct coupled power amp with pure complementary symmetry (SEPP OTL)

Power requirements:

120 V ac 60 Hz (USA-Canada Model)
 100-120-220-240 V ac 50/60 Hz (E Model)

Power consumption:

190 W (USA Model)
 370 VA (Canada Model)
 500 W (E Model)

AC outlets:

2 unswitched, 300 W maximum

Dimensions:

520 (w) $\times$ 189 (h) $\times$ 370 (d) mm
 20 $\frac{1}{2}$ (w) $\times$ 7 $\frac{1}{2}$ (h) $\times$ 14 $\frac{5}{8}$ (d) inches

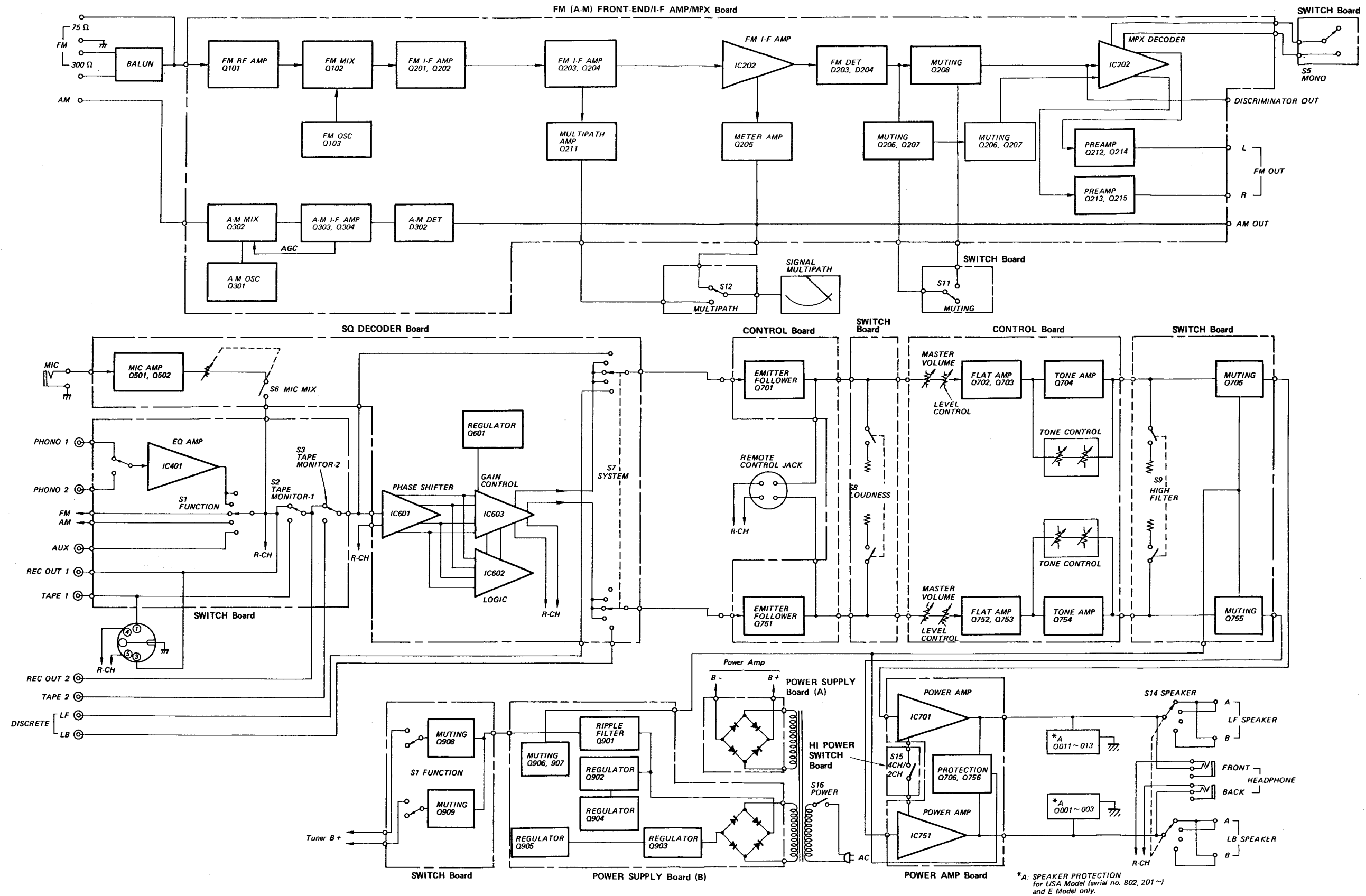
Net weight:

16.6 kg (36 lb 10 oz)

Shipping weight:

19.7 kg (43 lb 7 oz)

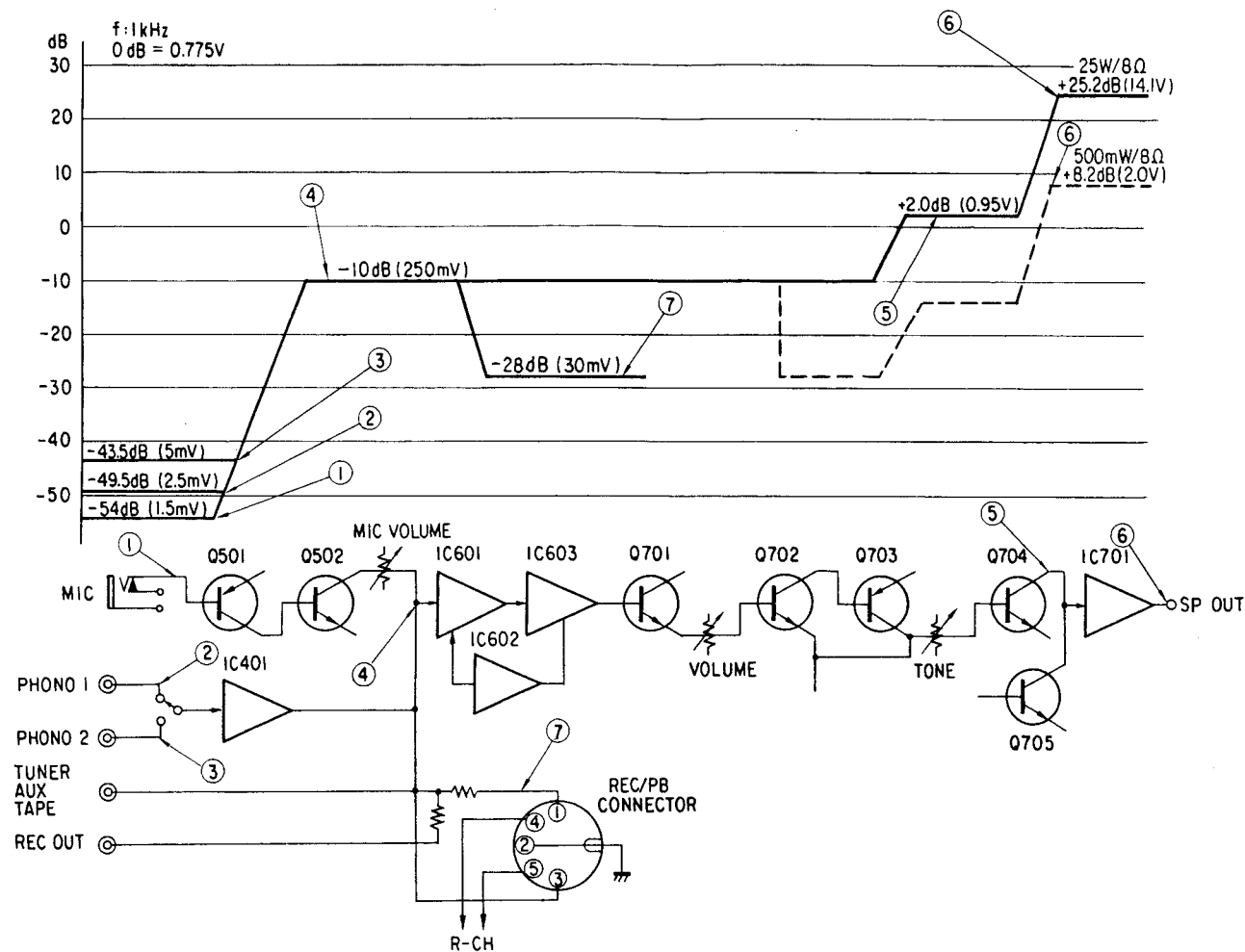
1-2. BLOCK DIAGRAM



*A: SPEAKER PROTECTION for USA Model (serial no. 802, 201~) and E Model only.

SECTION 2 DISASSEMBLY AND REPLACEMENT

1-3. LEVEL DIAGRAM



Note: Signal voltages are measured with ac VTVM and expressed in dB referred to 0.775 V, 1 kHz.

Note: All screws are phillips type (cross recess type), unless otherwise indicated.

2-1. WOODEN CASE REMOVAL

Remove the four screws from both sides of the set and lift up the wooden case.

2-2. BOTTOM PLATE REMOVAL

Remove the nine self-tapping screws (B 3x8) shown in Fig. 2-1.

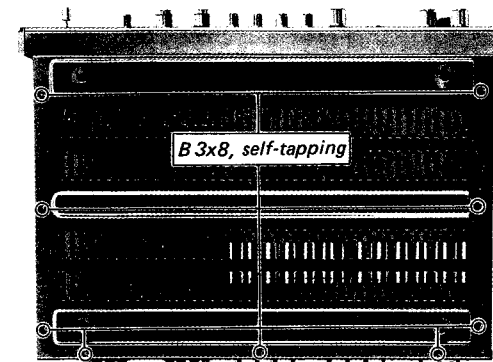


Fig. 2-1. Bottom plate removal

2-3. FRONT PANEL REMOVAL

1. Remove the wooden case as described in Procedure 2-1.
2. Remove all the knobs from the front panel (but leave the pushbuttons). The tuning knob has a set screw.
3. Remove the six self-tapping screws (B 3x6) from both sides of the front panel bracket as shown in Fig. 2-2.

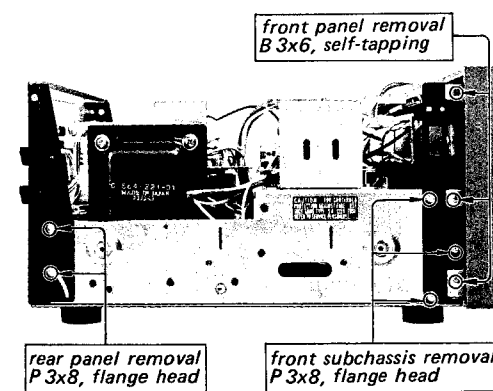


Fig. 2-2. Front panel, front subchassis and rear panel removal

2-4. DIAL GLASS REMOVAL

1. Remove the front panel as described in Procedure 2-3.
2. Remove the six screws (B 4x6) shown in Fig. 2-3.

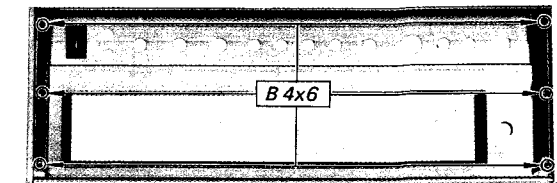


Fig. 2-3. Dial glass removal

2-5. FRONT SUBCHASSIS REMOVAL

1. Remove the wooden case, the bottom plate and the front panel as described in Procedure 2-1, 2-2 and 2-3.
2. Remove the dial cord.
3. Remove the six flange head screws (P 3x8) from both sides of the front panel bracket as shown in Fig. 2-2.
4. Remove the two self-tapping screws (B 3x6) securing the SQ decoder circuit board to the chassis as shown in Fig. 2-4.
5. If complete separation of the front subchassis is necessary, remove the wirings connecting the front subchassis with other parts of the set.

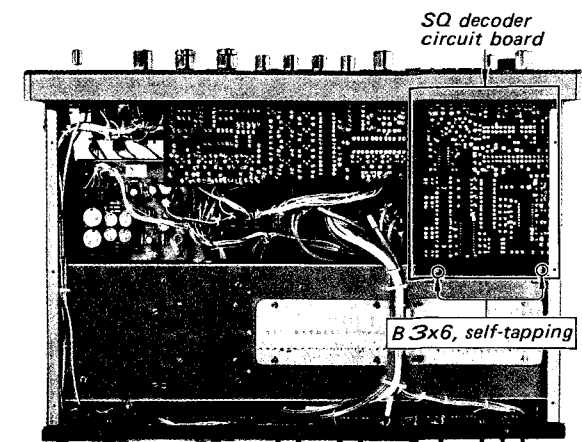


Fig. 2-4. Front subchassis removal

2-6. REAR PANEL REMOVAL

1. Remove the wooden case and the bottom plate as described in Procedures 2-1 and 2-2.
2. Remove the four flange head screws (P 3x8) from both sides of the rear panel as shown in Fig. 2-2.

2-7. DIAL CORD STRINGING

Note: Before starting the stringing, set the tuning capacitor shaft fully clockwise (minimum capacitance position).

1. Remove the wooden case as described in Procedure 2-1.
2. String the dial cord as indicated in Fig. 2-5.

2-8. MECHANICAL DIAL CALIBRATION

Tune the receiver to your local radio station. Set the dial pointer on the cord (see Fig. 2-6) at the corresponding position of the dial scale. Tune to other stations and check the calibration.

Note: Perform the frequency coverage and tracking alignment, if necessary, as described in Procedures 3-3 and 3-7.

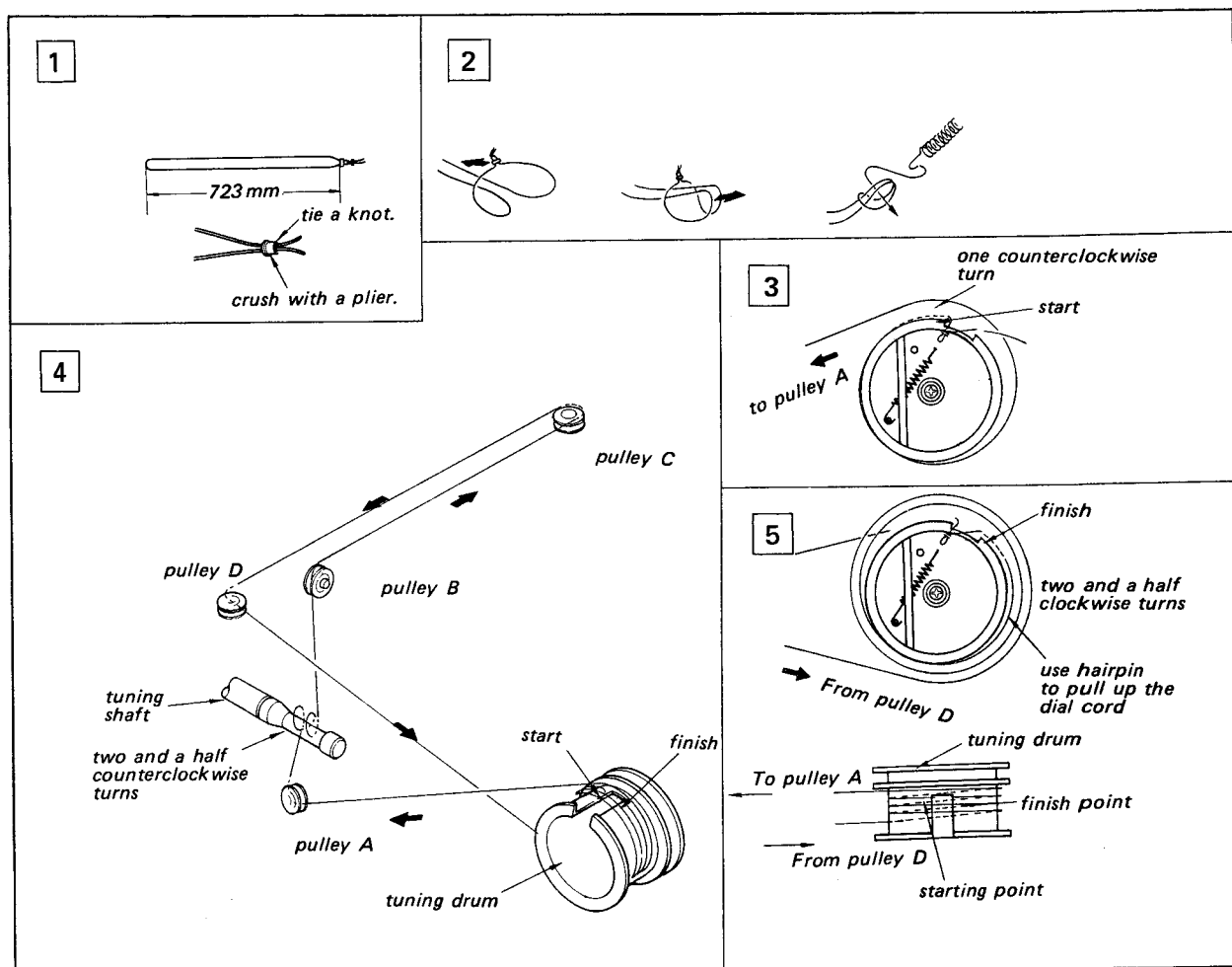


Fig. 2-5. Dial cord stringing

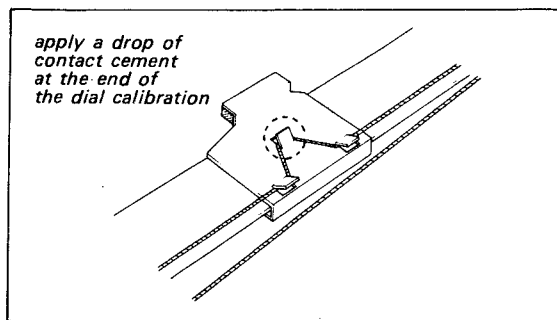


Fig. 2-6. Dial pointer installation

2-9. DIAL SCALE REPLACEMENT

1. Remove the front panel as described in Procedure 2-3.
2. Remove the two screws (B 3x6) shown in Fig. 2-7.
3. Replace the scale. (Place a strip of double-sided tape between the dial scale and the front subchassis at the center.)

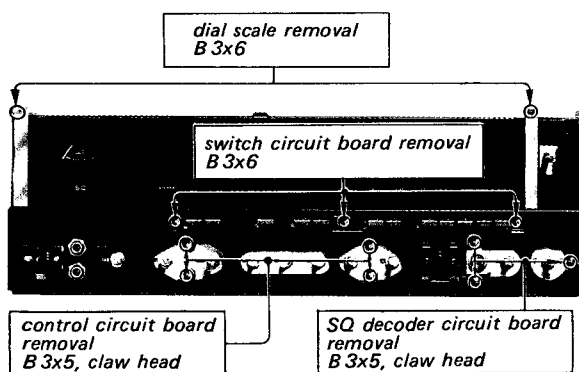


Fig. 2-7. Dial scale and circuit board removal

2-10. SIGNAL METER REPLACEMENT

1. Remove the front panel as described in Procedure 2-3.
2. Remove the three screws (B 3x6) shown in Fig. 2-8, securing the dial lamp shade to the front subchassis.
3. Remove the signal meter held in place with a strip of adhesive tape from the back of the front subchassis.
4. Install a new meter.

2-11. LAMP REPLACEMENT

1. Remove the wooden case and the bottom plate as described in Procedures 2-1 and 2-2.

2. Pull out the lamp grommets of a stereo lamp and six dial lamps from the terminals of the dial lamp circuit board.
3. To reach for the signal meter lamp and stereo lamp, separate the dial lamp shade from the front subchassis.
4. Place a new lamp into the grommet and reinstall the grommet to the terminals of the dial lamp circuit board.

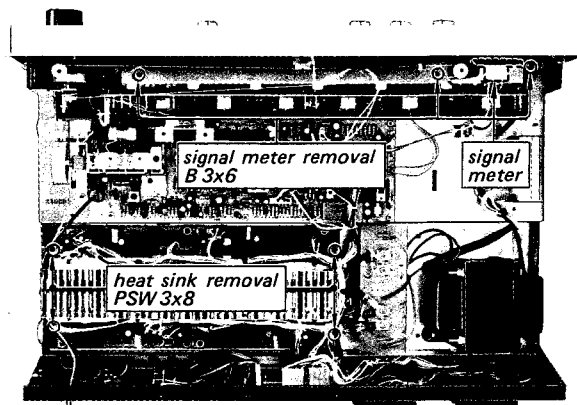


Fig. 2-8. Signal meter and power amplifier circuit board removal

2-12. CIRCUIT BOARD REMOVAL

Preparation:

Remove the bottom plate and the front panel as described in Procedures 2-2 and 2-3.

FM (AM) Front-End/IF Amp/MPX Circuit Board

1. Remove the four self-tapping screws (B 3x6) securing the board to the chassis.
2. Remove the two self-tapping screws (B 3x6) securing the tuning capacitor bracket to the chassis.
3. Remove the screw (PSW 3x8) securing the a-m ferrite-rod antenna holder to the board.

Power Supply Circuit Board (A)

Remove the four screws (PSW 4x8) securing the board to the two electrolytic capacitors.

Power Amplifier Circuit Board

1. Remove the four screws (PSW 3x8) shown in Fig. 2-8 and lift up the heat sink.
2. Remove the two screws (B 3x6) securing the each power amplifier board to the heat sink.
3. Remove the two screws (B 3x6) securing each power IC to the heat sink.

HI-POWER Switch Circuit Board

1. Remove the rear panel as described in Procedure 2-6.
2. Remove the two claw head screws (B 2.6x4) securing the HI-POWER switch to the rear panel.
3. Remove the four nylon rivets securing the DISCRETE INPUT jack board to the rear panel.

SQ Decoder Circuit Board

1. Remove the three claw head screws (B 3x5) shown in Fig. 2-7.
2. Remove the two self-tapping screws (B 3x6) securing the board to the chassis from the bottom.

Control Circuit Board

Remove the four claw head screws (B 3x5) shown in Fig. 2-7.

Switch Circuit Board

1. Remove the SQ decoder circuit board.
2. Remove the three screws (B 3x6) shown in Fig. 2-7.
3. Remove the three self-tapping screws (B 3x6) securing the board to the chassis from the bottom.

Power Supply Circuit Board (B)

Remove the three self-tapping screws (B 3x6) securing the board to the chassis from the bottom.

2-13. CHASSIS LAYOUT

Note:

Fig. 2-9 and Fig. 2-10 show USA Model (serial no. 800,001~802,200) and Canada Model. USA Model (serial no. 802,201~) and E Model have SPEAKER PROTECTION BOARD attached to the bottom of the chassis by a screw. In addition, E Model has a voltage selector attached to the rear panel. See the exploded view on page 55 for the detail.

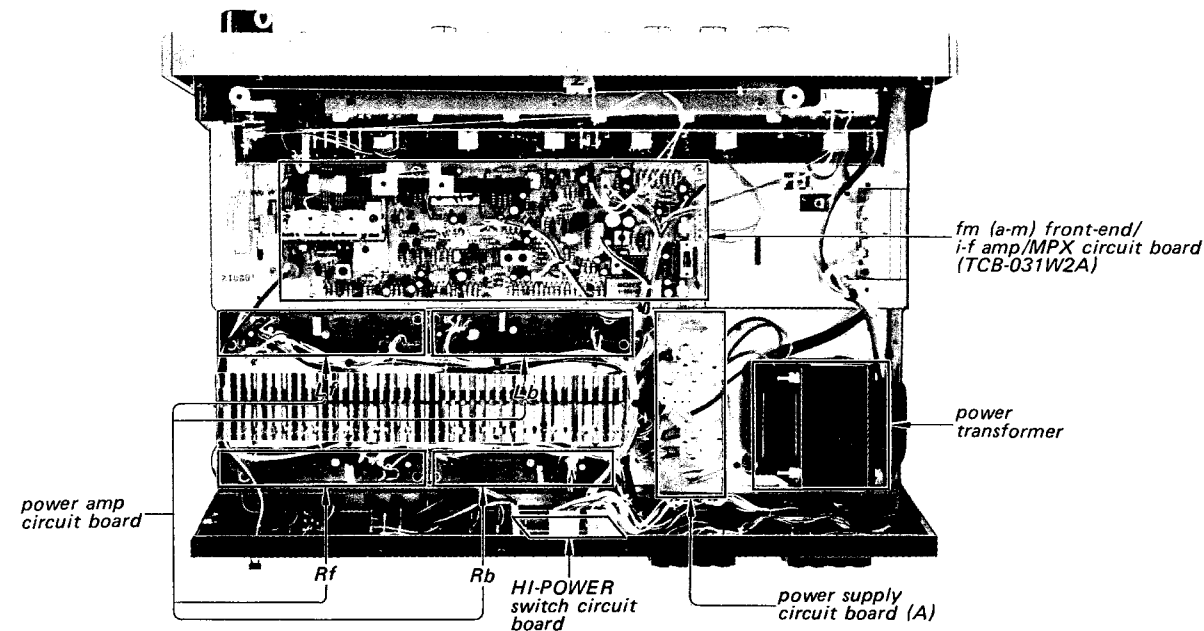


Fig. 2-9. Chassis layout (1) - top view -

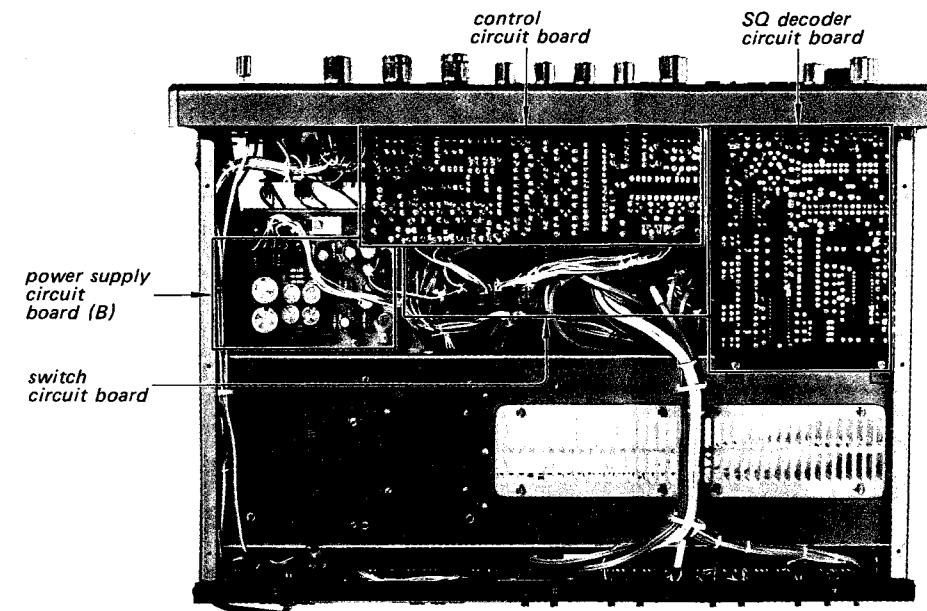


Fig. 2-10. Chassis layout (2) - bottom view -

SECTION 3
ADJUSTMENT AND ALIGNMENT

TEST EQUIPMENT REQUIRED

- 1. Fm Signal Generator (fm SG)
- 2. Fm Stereo Signal Generator (fm stereo SG)
- 3. A-m Signal Generator (a-m SG)
- 4. Ac VTVM
- 5. Oscilloscope
- 6. Null Meter
- 7. SQ Checker (SONY SQ CHECKER Model 0005*)
- 8. Attenuator
- 9. Loop Antenna

* available from the nearest Sony Factory Service Center

SWITCH AND CONTROL POSITION

During the adjustment and alignment procedures keep the switch and control positions as shown below unless otherwise indicated under each section.

- FUNCTION SW FM
MONITOR SW
2CH TAPE 1 OFF
2CH TAPE 2 OFF
MONO SW OFF
LOUDNESS SW OFF
HIGH FILTER SW OFF
LOW FILTER SW OFF
MUTING SW OFF
MULTIPATH SW OFF
SYSTEM SW 2CH
MIC MIXING SW OFF
MASTER VOLUME minimum
LEVEL ADJUST
Lf mechanical-mid
Rf mechanical-mid
Lb mechanical-mid
Rb mechanical-mid
TONE TREBLE mechanical-mid
TONE BASS mechanical-mid
SPEAKER SW A
HI POWER SW 4CH

3-1. FM IF ALIGNMENT

CAUTION

The ceramic filters used in the fm i-f circuit are color coded according to their center frequencies as shown in Table 3-1 and Fig. 3-1. Be sure to use a correct ceramic filter for a replacement.

TABLE 3-1.
FM I-F CERAMIC FILTERS

Part No.	Color	Specified Center Freq.
1-527-240-11	red	10.70 MHz
1-527-242-21	blue	10.67 MHz
1-527-240-31	orange	10.73 MHz
1-527-240-41	black	10.64 MHz
1-527-240-51	white	10.76 MHz

Note: 1-527-240-00 CF201
1-527-242-00 CF202

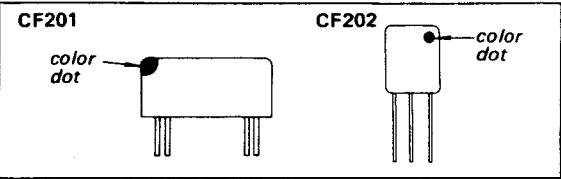


Fig. 3-1. Color dot on ceramic filter

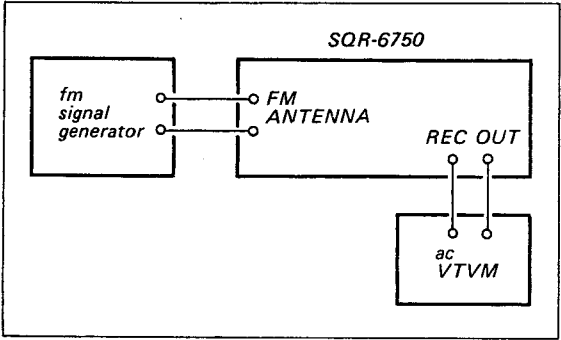


Fig. 3-2. Fm i-f alignment and fm frequency coverage alignment setup

1. Fm Signal Generator Setting:
carrier frequency 98 MHz
modulation 400 Hz, 100 %
(75 kHz deviation)
output level as low as possible
2. Tune SQR-6750 to 98 MHz and adjust IFT101 (see Fig. 3-3) for a maximum output level.

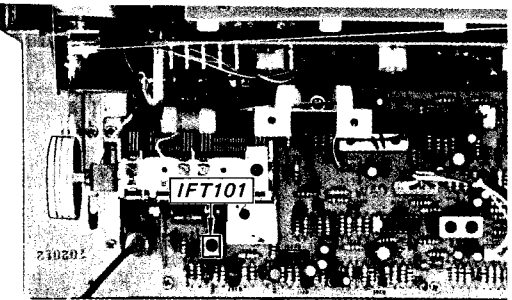


Fig. 3-3. Adjustment part location

3-2. FM DISCRIMINATOR ALIGNMENT

1. Disconnect R229 from the fm(a-m) front-end/i-f amp/MPX board, and connect the null meter in place of R229 as shown in Fig. 3-4.
2. Adjust the secondary side of the discriminator IFT201 (see Fig. 3-12), so that the null meter reads zero.
3. After completing the adjustment, remount R229 on the circuit board.

Fm(A-m) Front-End/I-f Amp/MPX Board
— component side —

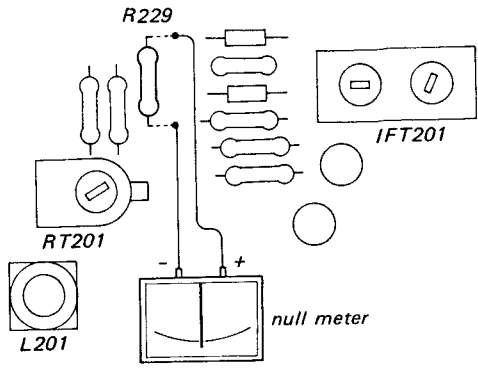


Fig. 3-4. Fm discriminator alignment setup

3-3. FM FREQUENCY COVERAGE ALIGNMENT

1. Connect the equipment as shown in Fig. 3-2.
2. Follow the steps in TABLE 3-2.

TABLE 3-2.
FM FREQUENCY COVERAGE ALIGNMENT

Step	Fm SG Connection	Fm SG Setting ① freq., ② mod., ③ output	SQR-6750 Dial Setting	VTVM Connection	Adjusting Parts	VTVM Reading
1	FM ANTENNA	① 88 MHz ② 400 Hz, 100 % ③ as low as possible	88 MHz	REC OUT	OSC coil, L104 (see Fig. 3-12)	Maximum
2	FM ANTENNA	① 108 MHz ② 400 Hz, 100 % ③ as low as possible	108 MHz	REC OUT	OSC trimmer, CT104 (See Fig. 3-12)	Maximum

3-4. FM MUTING ADJUSTMENT

1. Fm Signal Generator Setting:
carrier frequency 98 MHz
modulation 400 Hz, 100 %
(75 kHz deviation)
output level 60 dB (1,000 μ V)
2. Connect the null meter as shown in Fig. 3-5.
3. Turn on the MUTING switch of SQR-6750, and tune SQR-6750 to 98 MHz.
4. Adjust RT201 (see Fig. 3-12 on page 18) so that the needle of the null meter deflects symmetrically about the center (zero position) when detuning the SQR-6750 to higher or lower than the reference carrier frequency (98 MHz).

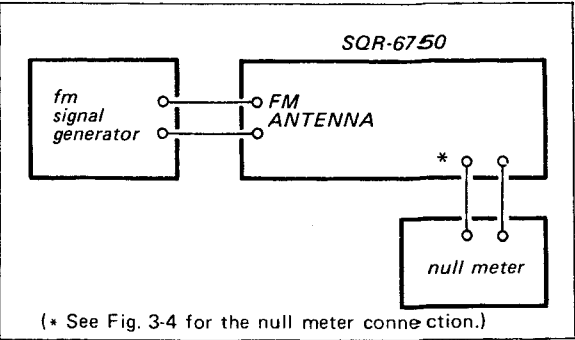


Fig. 3-5. Muting adjustment setup

3-5. FM STEREO SEPARATION ADJUSTMENT

1. Connect the equipment as shown in Fig. 3-6, and set the fm stereo signal generator controls as follows:

Carrier frequency 98 MHz
Output level 1,000 μ V (60 dB)
Mode Stereo
Audio (400 Hz) Mod 67.5 kHz (90 %)*
Pilot (19 kHz) Mod 7.5 kHz (10 %)

***Note:** 75 kHz (100 %) if metering indicates total modulation (audio+pilot)

2. Precisely tune the SQR-6750 to the signal-generator carrier frequency, and turn the top core of 38 kHz transformer L202 (see Fig. 3-12) to obtain maximum output at the left channel. Note that this adjustment has a close relationship with stereo distortion.

3. Record the output level of the left channel when the MPX generator input selector is set to the left channel.
4. Switch the input selector to the right channel and read the residual signal level in the left channel.
5. The output-level to residual-level ratio represents the separation. Adjust separation control RT202 (see Fig. 3-12) for minimum residual level. Check the right channel for separation. Usually, about an 8 to 9 dB difference in channel separation exists. Re-adjust RT202 for minimum difference between left-and right-channel separation. While doing this, remember that the output level also changes according to the setting of RT202.

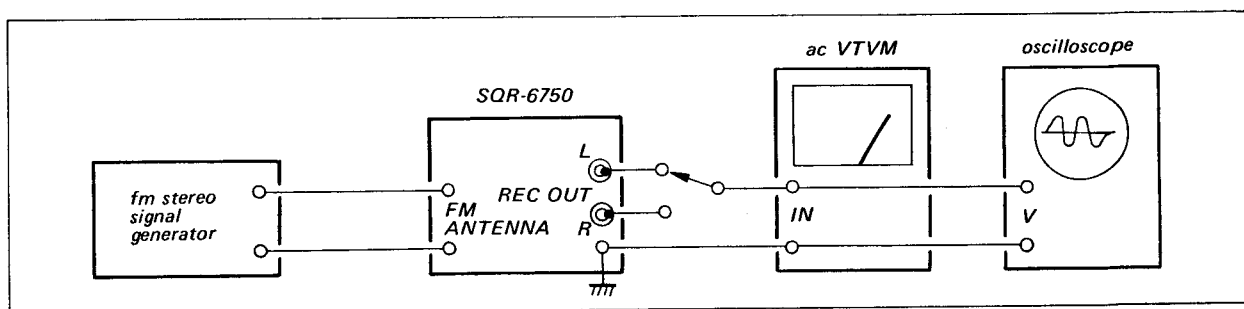


Fig. 3-6. Fm stereo separation adjustment setup

3-6. OUTPUT LEVEL ADJUSTMENT

1. Fm Signal Generator Setting:
 carrier frequency 98 MHz
 modulation..... 400 Hz, 100 %
 (75 kHz deviation)
 output level 60 dB (1,000 μV)
2. Tune SQR-6750 to 98 MHz.
3. Adjust RT203 (L) and RT204 (R) (see Fig. 3-12 on page 18) so that the output levels at L-CH REC OUT and R-CH REC OUT terminals, respectively, become -1 dB.

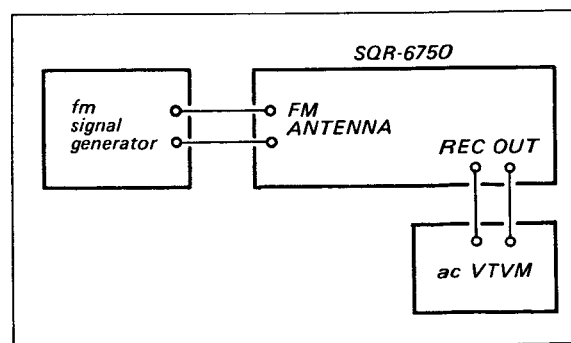


Fig. 3-8. Output level adjustment setup

3-7. A-M FREQUENCY COVERAGE AND TRACKING ALIGNMENT

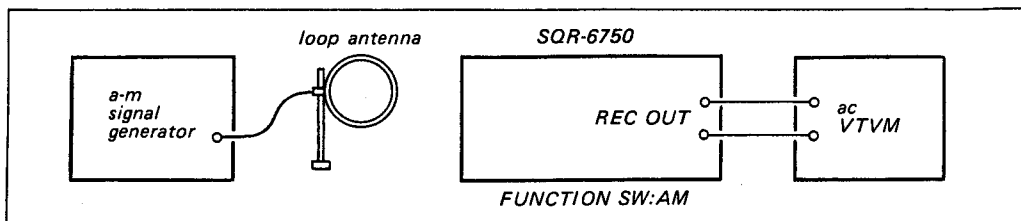


Fig. 3-9. A-m frequency coverage and tracking alignment setup

Follow the steps in TABLE 3-3 and TABLE 3-4.

TABLE 3-3.

A-M FREQUENCY COVERAGE ALIGNMENT				
Step	A-m SG Setting: ① freq., ② mod., ③ output	SQR-6750 Dial Setting	Adjusting Parts	VTVM Reading
1.	① 530 kHz ② 400 Hz, 30 % ③ 60 dB (1,000 μ V)	530 kHz	OSC coil, L303 (See Fig. 3-12)	Maximum
2	① 1,600 kHz ② 400 Hz, 30 % ③ 60 dB (1,000 μ V)	1,600 kHz	OSC trimmer, CT301 (See Fig. 3-12)	Maximum

TABLE 3-4.

A-M TRACKING ALIGNMENT				
Step	A-m SG Setting: ① freq., ② mod., ③ output	SQR-6750 Dial Setting	Adjusting Parts	VTVM Reading
1.	① 600 kHz ② 400 Hz, 30 % ③ as low as possible	600 kHz	antenna coil, L301, (See Fig. 3-12)	Maximum
2.	① 1,400 kHz ② 400 Hz, 30 % ③ as low as possible	1,400 kHz	antenna trimmer, CT302 (See Fig. 3-12)	Maximum

3-8. SQ SEPARATION ADJUSTMENT

Note: To perform this adjustment, separate the SQ decoder board from the chassis (leave the wires connected) and turn the circuit board over so that its component side faces toward you.

Signal Modes of SQ Checker:

LF = left front
RF = right front
LB = left back
RB = right back
CF = center front
CB = center back

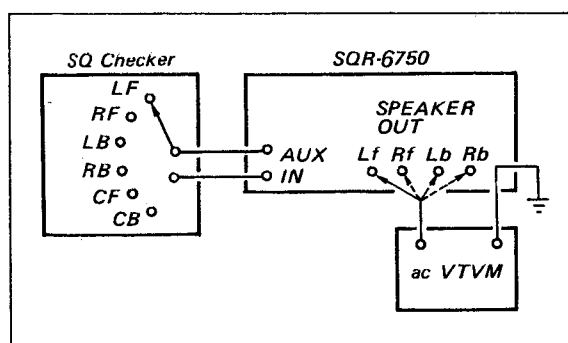


Fig. 3-10. Signal modes of SQ checker

1. SQR-6750 Switch Setting:
FUNCTION switch AUX
SYSTEM switch SQ
2. Connect the ac VTVM to Lf speaker terminal.
3. Set the signal mode of the SQ checker to LF, and feed 2 kHz/-10 dB signal to AUX IN of SQR-6750.
4. Adjust the MASTER VOLUME of SQR-6750 so that the ac VTVM reads 1 watt (+11.2 dB).
5. Adjust RT601 (see Fig. 3-11) so that when the pin shown in Fig. 3-11 is grounded, the output level at Lf speaker terminal drops by 3 dB (from +11.2 dB to +8.2 dB). Make sure that the output level goes back to +11.2 dB when the pin is ungrounded.
6. Check the cross-talk levels at each speaker terminal (Lf, Rf, Lb, and Rb) according to TABLE 3-5.

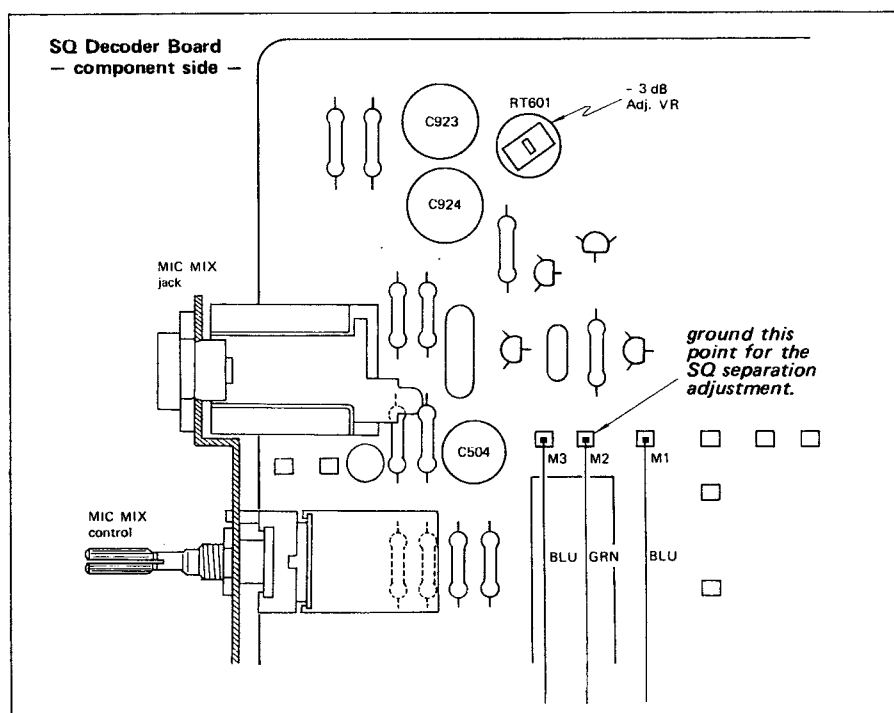


Fig. 3-11. SQ separation adjustment

TABLE 3-5.
SQ CROSS-TALK LEVELS [Relative to the value obtained at (*)]

Signal Mode of SQ Checker Speaker Terminal	Lf	Rf	Lb	Rb
L _F	*	-30 dB or less	-11 dB	-11 dB
R _F	-30 dB or less	*	-11 dB	-11 dB
L _B	-13 dB	-13 dB	*	-9 dB
R _B	-13 dB	-13 dB	-9 dB	*
C _F	*	*	-13 dB	-13 dB
C _B	-11 dB	-11 dB	*	*

* +11.2 dB as previously set in step 4.

3-9. ADJUSTMENT PARTS LOCATION

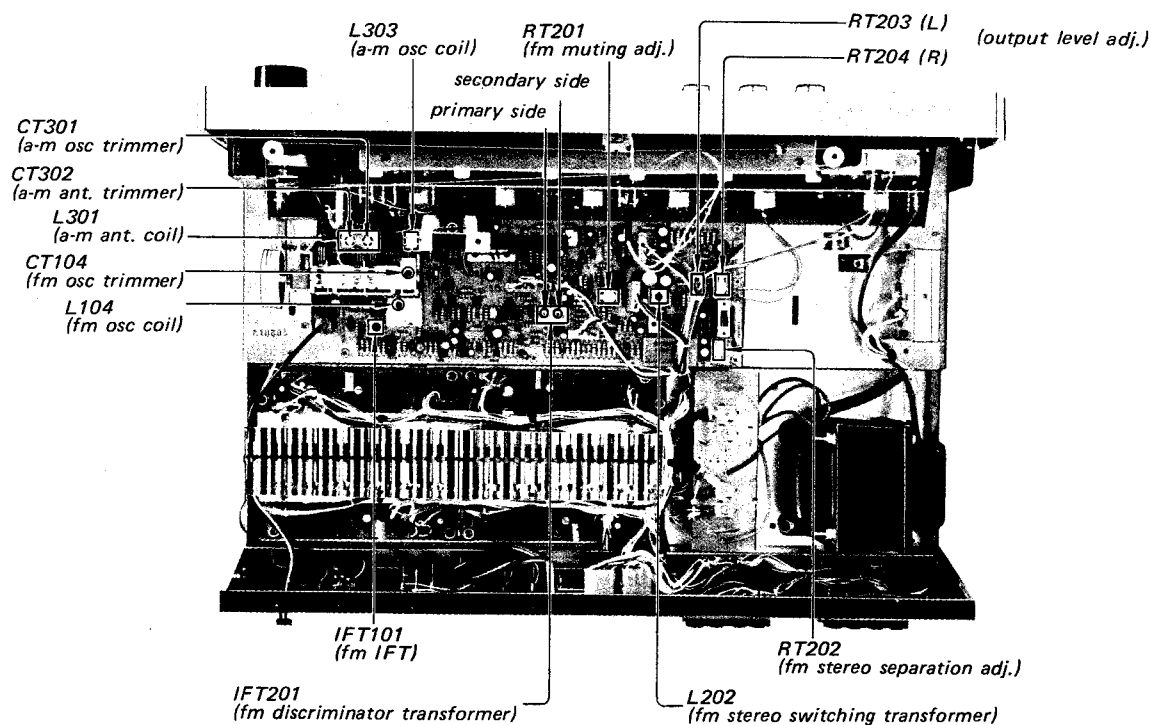


Fig. 3-12. Adjusting parts location

SECTION 4 DIAGRAMS

4-1. WIRING DIAGRAMS Speaker Switch

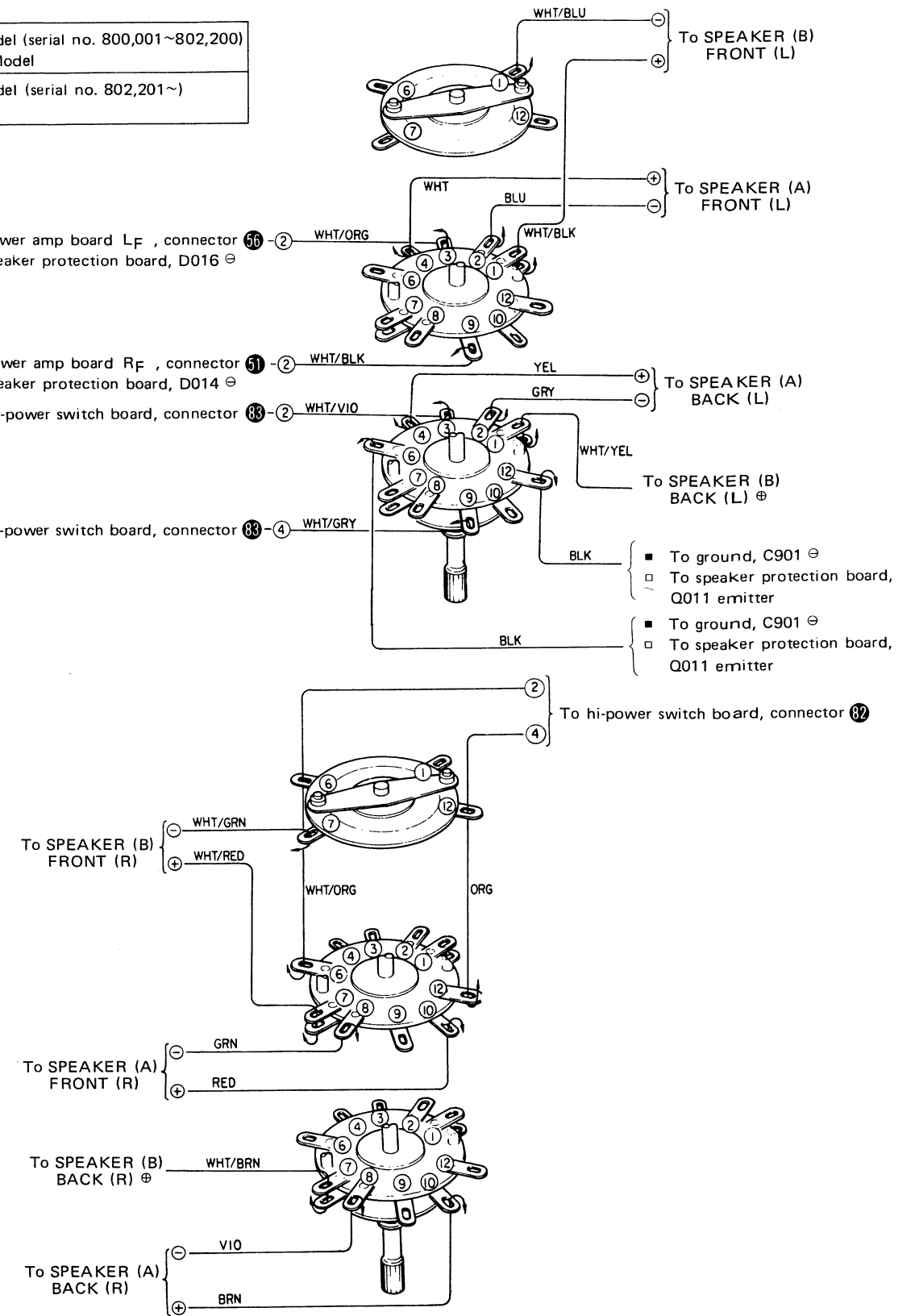
■	USA Model (serial no. 800,001~802,200) Canada Model
□	USA Model (serial no. 802,201~) E Model

- To power amp board L_F, connector 50-2 WHT/ORG
- To speaker protection board, D016 ⊖

- To power amp board R_F, connector 51-2 WHT/BLK
- To speaker protection board, D014 ⊖

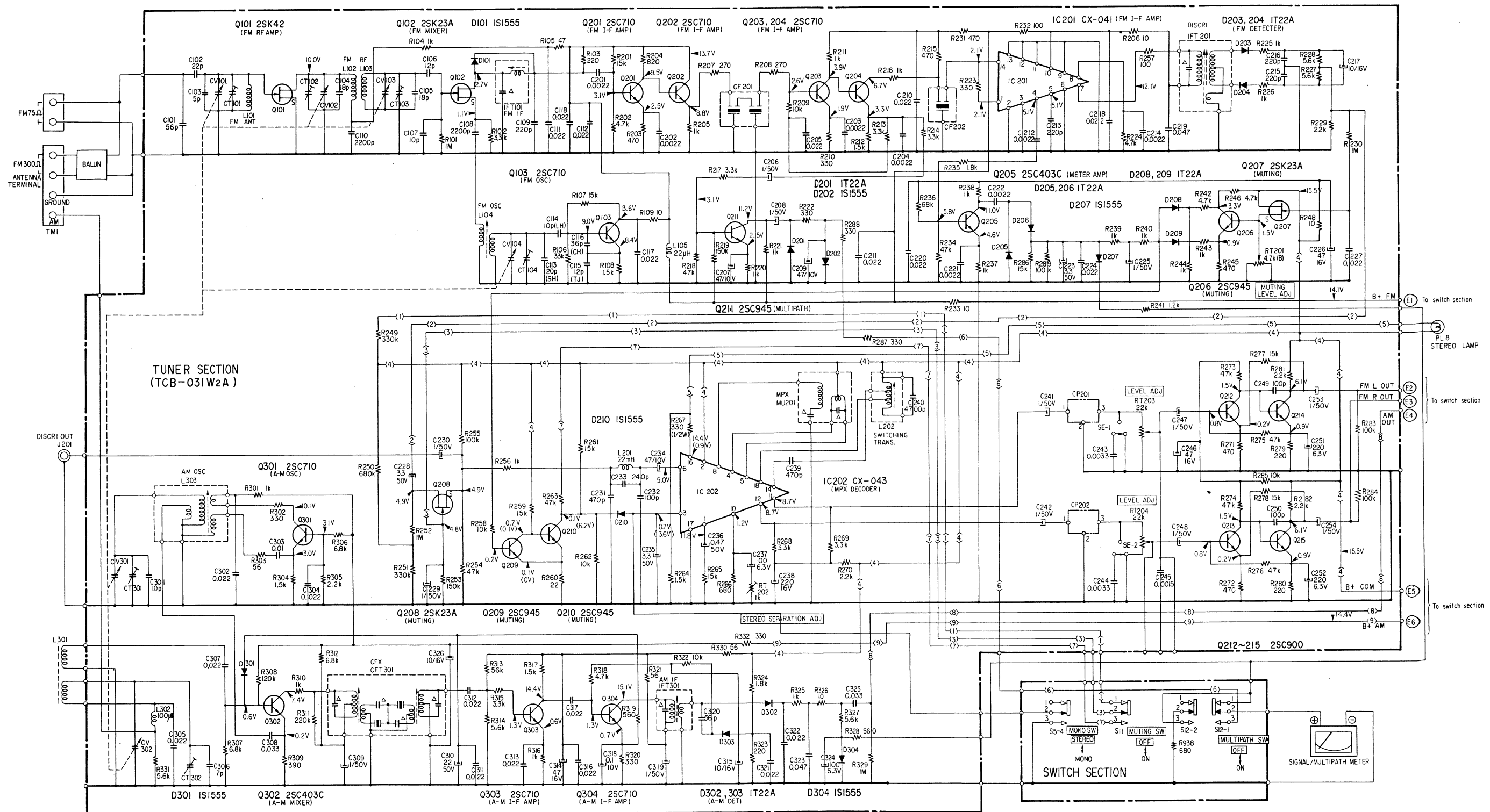
- To hi-power switch board, connector 83-2 WHT/VIO

- To hi-power switch board, connector 83-4 WHT/GRY



SQR-6750

4-2. SCHEMATIC DIAGRAM FM (AM) Front-End/I-f Amp/MPX section



<u>Ref. No.</u>	<u>Description</u>	<u>Position</u>
S5	MONO SW (STEREO-MONO)	STEREO
S11	FM MUTING SW	OFF
S12	FM MULTIPATH SW	OFF

Note:
All resistance values are in ohms. $k = 1,000$ $M = 1,000$ k
All capacitance values are in μF except as indicated with
p, which means μF .
All voltages are dc measured with a VOM which has an
input impedance of 20 k ohms/volt. No signal in.

Voltage variations may be noted because of normal production tolerances.

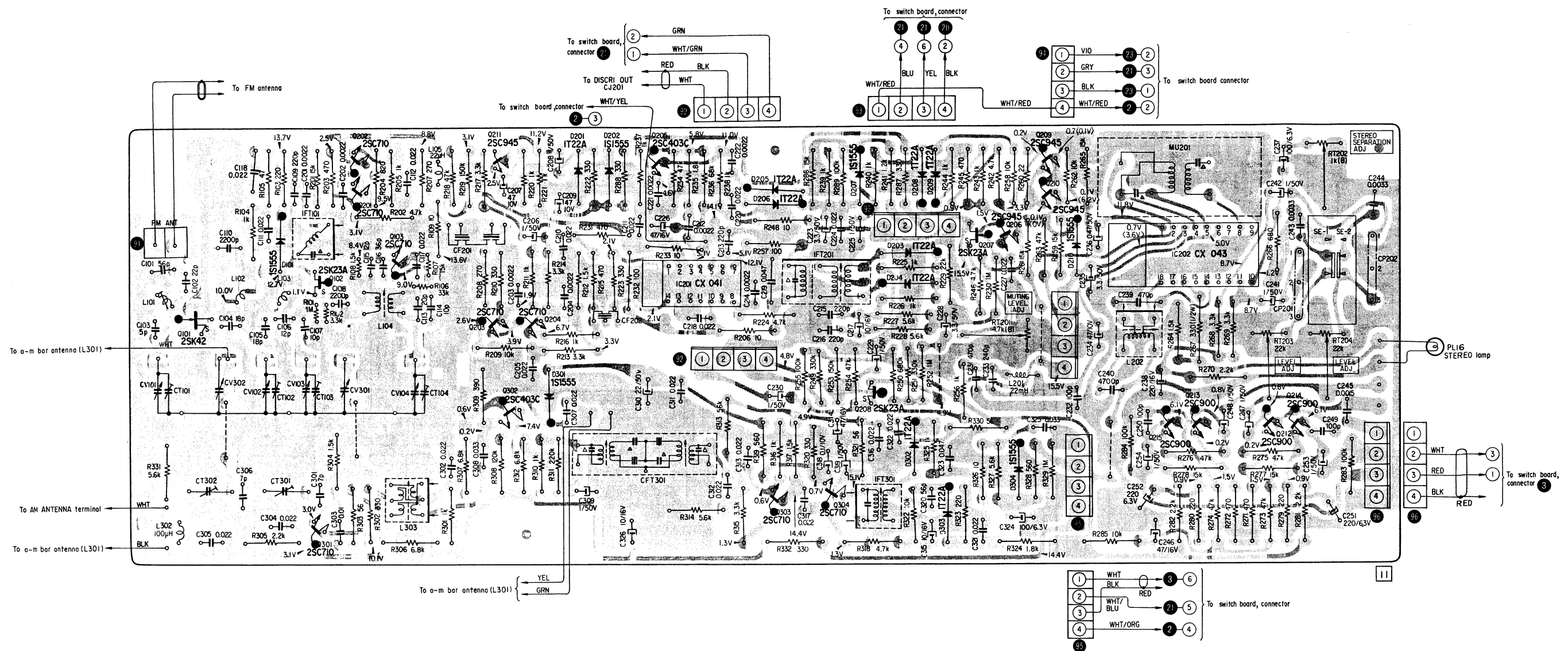
< > : Stereo operation

Capacitors marked Δ are built in transformers.

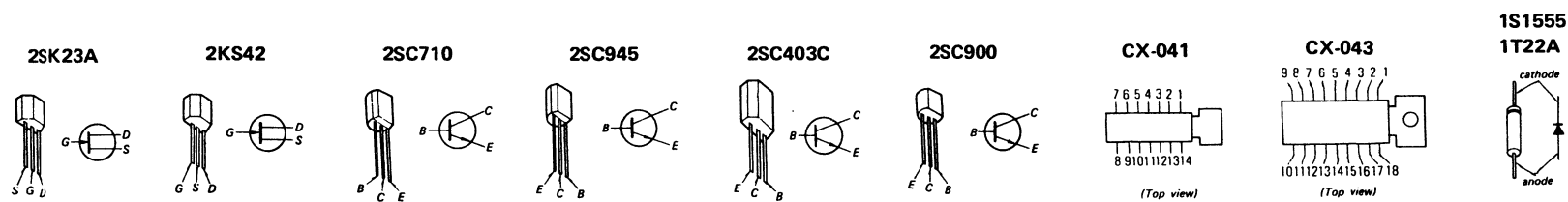
SQR-6750

4-3. MOUNTING DIAGRAM FM (AM) Front-End/IF Amp/MPX board

— Conductor Side —



Parts	Location
Q	
IC	Q101 Q102 Q301 Q202 Q201 Q103 Q211 Q203 Q204 Q205 IC201 Q303 Q304 Q208 Q207 Q206 Q209 Q210 IC202 Q215 Q213 Q212 Q214
D	D101 D201 D202 D301 D205 D206 D207 D208 D203 D204 D302 D209 D303 D304 D301
ADJ	CT101 CT302 CT102 CT301 IFT101 CT103 L104 CT104 L303 CFT301 IFT201 IFT301 RT201 L202 RT203 RT202 RT204



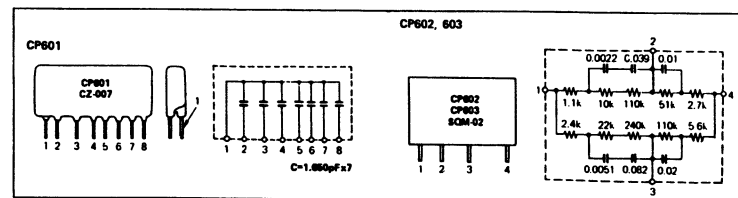
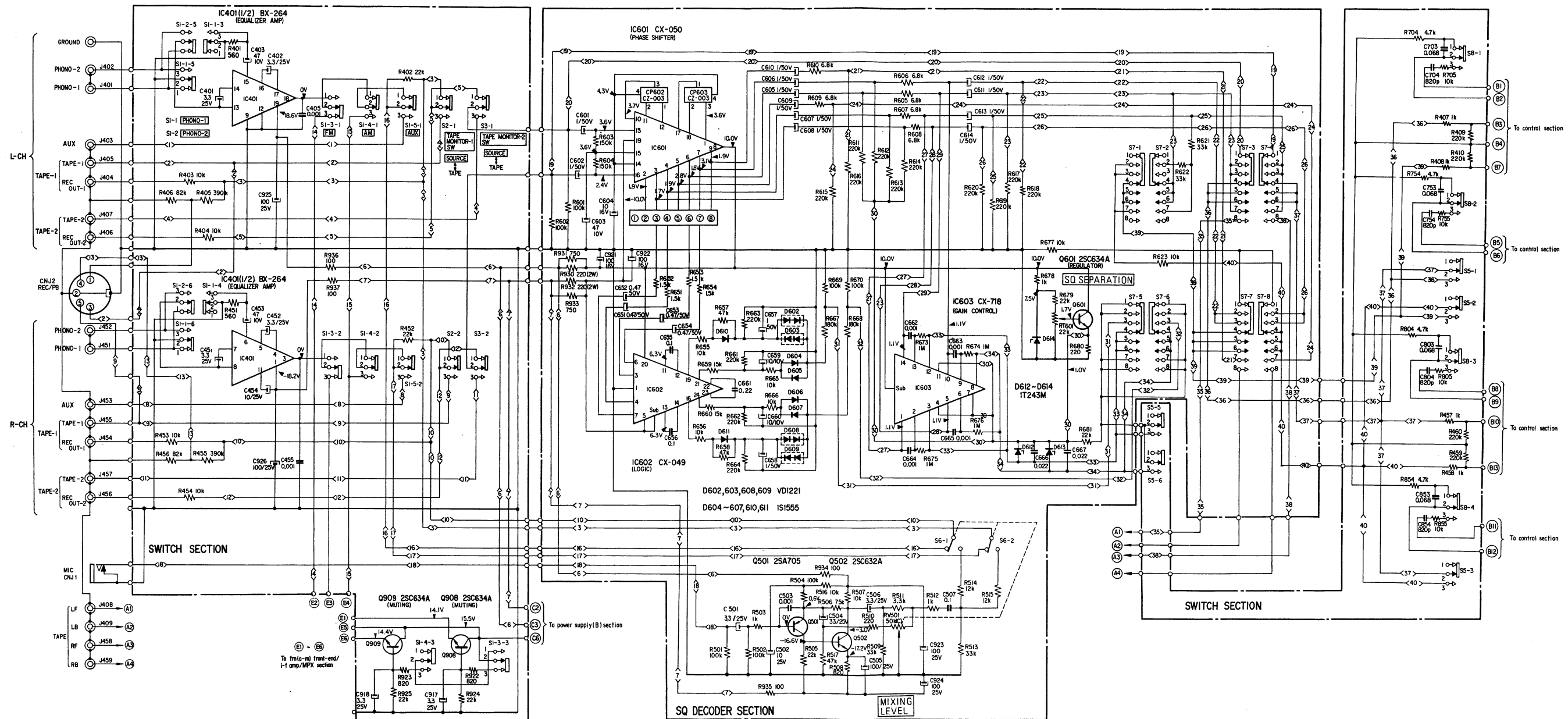
Note:

- shows the location of stencilled part number. Refer to this mark when replacing the part.
- Capacitors marked Δ are built in transformers.
- < > : Stereo operation

SQR-6750 SQR-6750

USA Model (serial no. 800,001~802,200)
Canada Model

4-4. SCHEMATIC DIAGRAM SQ Decoder/Switch section

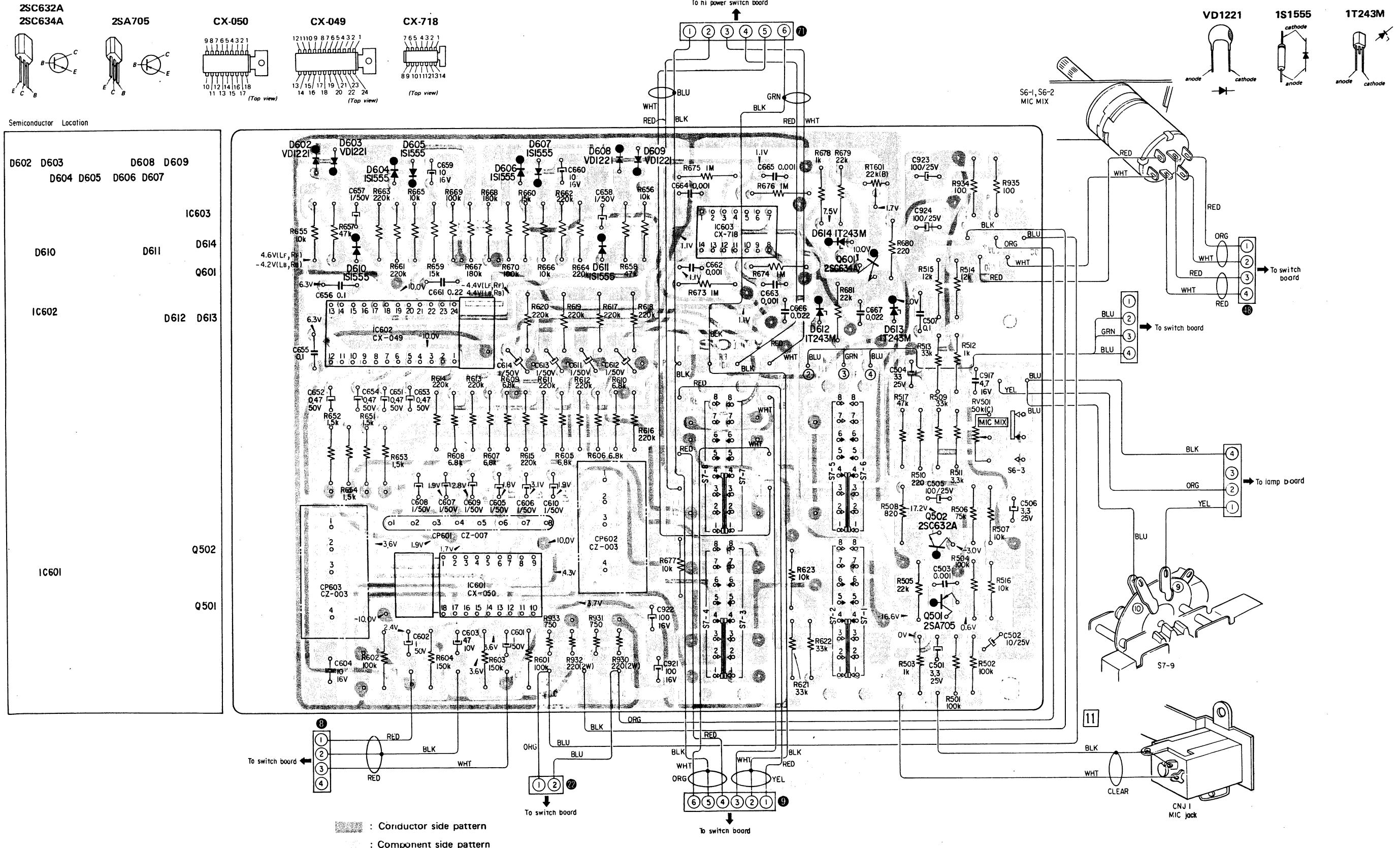


Ref. No.	Description	Position	Ref. No.	Description	Position
S1-1~5	FUNCTION SW (PHONO-1 - PHONO-2 - FM-AM - AUX)	FM	S5	MONO SW (STEREO - MONO)	STEREO
S2	TAPE MONITOR-1 SW (SOURCE - TAPE)	SOURCE	S6	MIC MIXING SW	OFF
S3	TAPE MONITOR-2 SW (SOURCE - TAPE)	SOURCE	S7	SYSTEM SELECTOR SW (2CH - 2-4 - SQ - R-MTX - DISCRETE)	2CH
			S8	LOUDNESS	OFF

Note:
All resistance values are in ohms. k = 1,000 M = 1,000 k
All capacitance values are in μF except as indicated with p, which means μF .
All voltages are dc measured with a VOM which has an input impedance of 20k ohms/volt. No signal in.
Voltage variations may be noted because of normal production tolerances.

USA Model (serial no. 800,001~802,200)
Canada Model

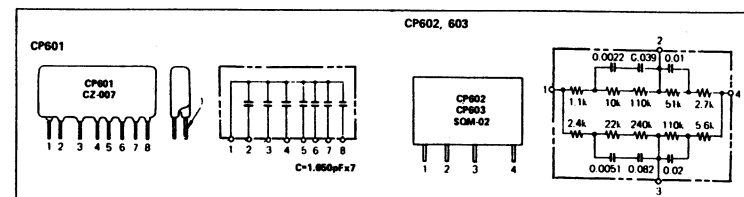
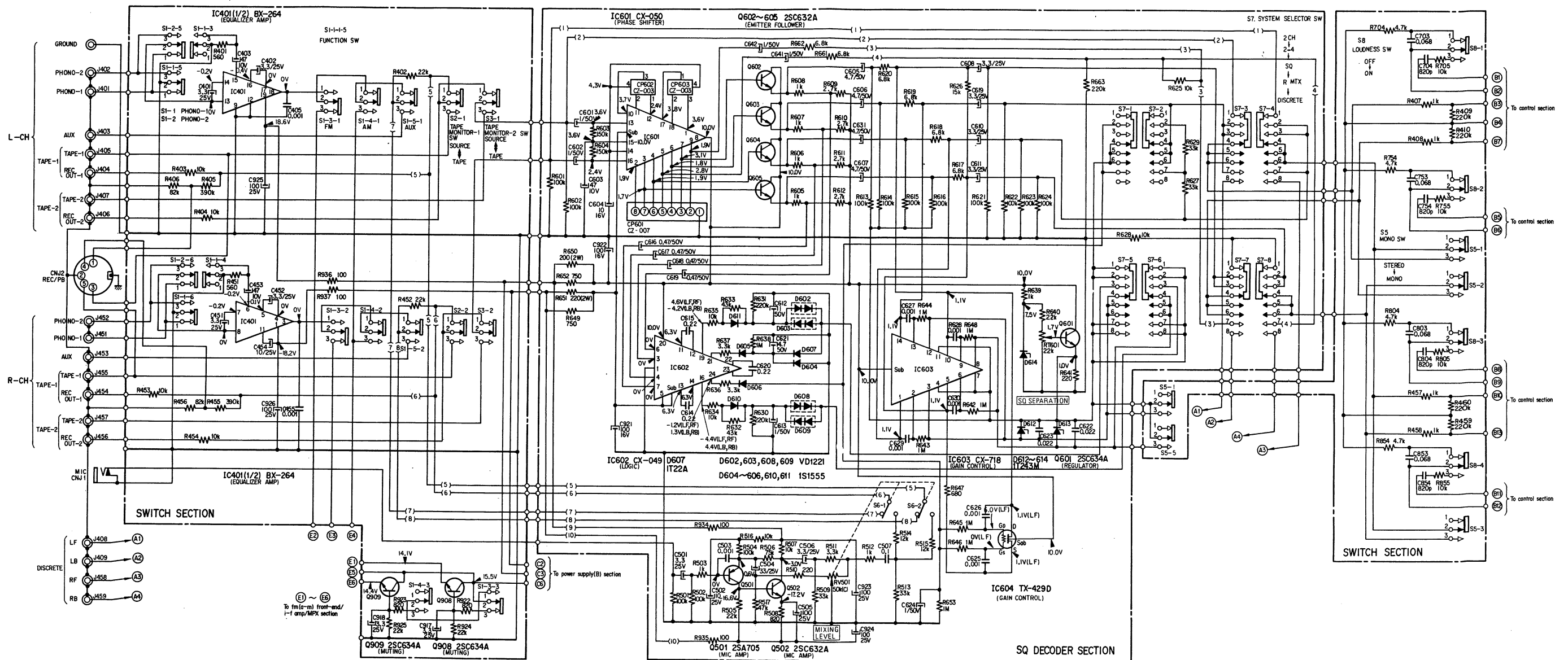
4-5. MOUNTING DIAGRAM SQ Decoder board



SQR-6750 SQR-6750

USA Model (serial no. 802,201~)
E Model

4-6. SCHEMATIC DIAGRAM SQ Decoder/Switch section



Ref. No.	Description	Position	Ref. No.	Description	Position
S1-1~5	FUNCTION SW (PHONO-1 - PHONO-2 - FM-AM - AUX)	FM	S5	MONO SW (STEREO - MONO)	STEREO
S2	TAPE MONITOR-1 SW (SOURCE - TAPE)	SOURCE	S6	MIC MIXING SW	OFF
S3	TAPE MONITOR-2 SW (SOURCE - TAPE)	SOURCE	S7	SYSTEM SELECTOR SW (2CH - 2+4 - SQ - R-MTX - DISCRETE)	2CH
			S8	LOUDNESS	OFF

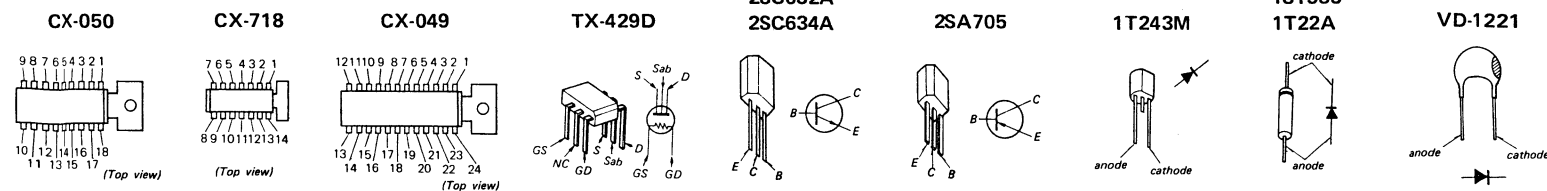
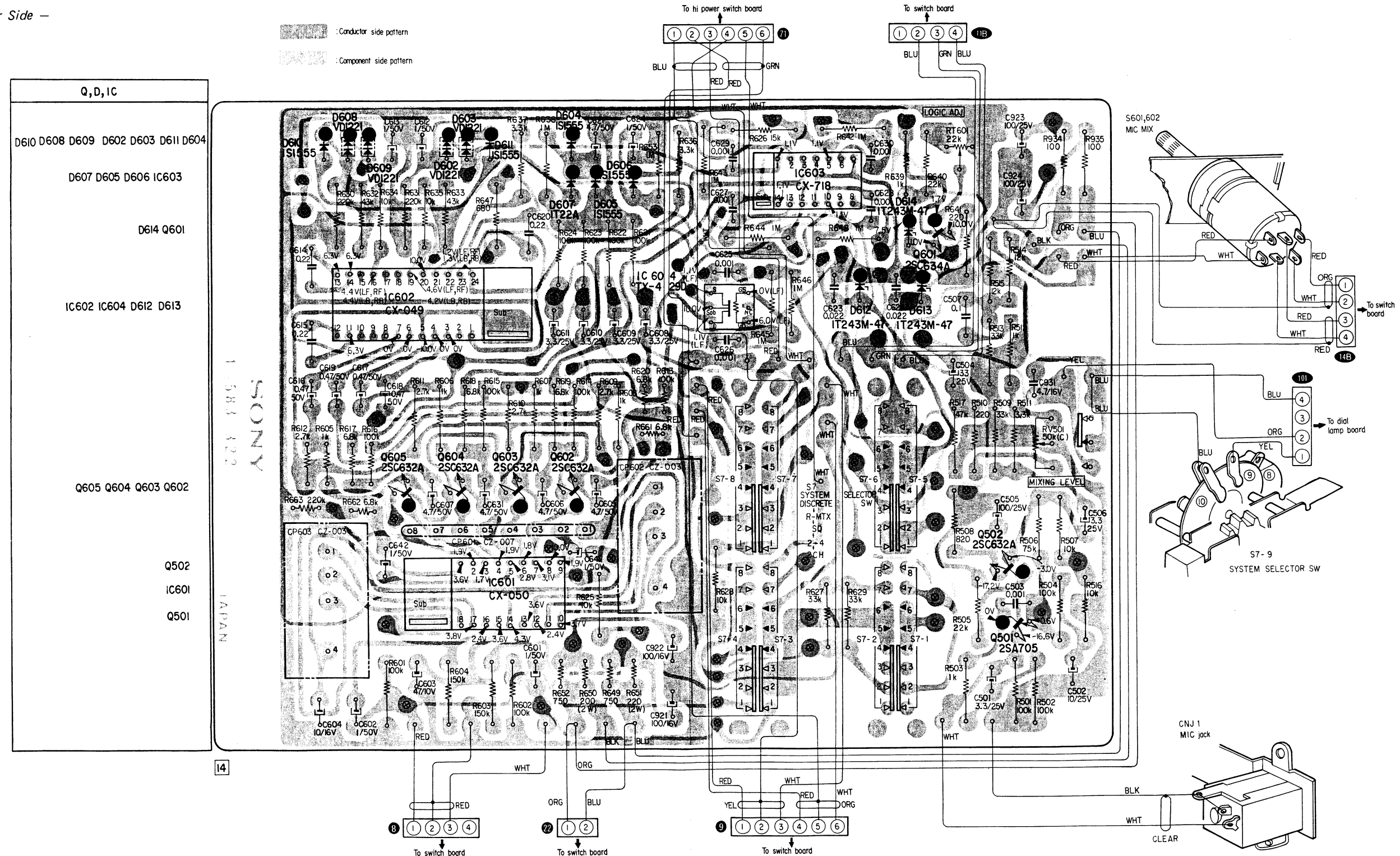
Note: All resistance values are in ohms. k=1,000, M=1,000k.
All capacitance values are in μF except as indicated with p, which means μF .
All voltages are dc measured with a VOM which has an input impedance of 20k ohms/volt. No signal in.
Voltage variations may be noted because of normal production tolerances.
(LF, RF), (LB, RB), and (LF) indicate the input signal modes.

SQR-6750 SQR-6750

USA Model (serial no. 802,201~)
E Model

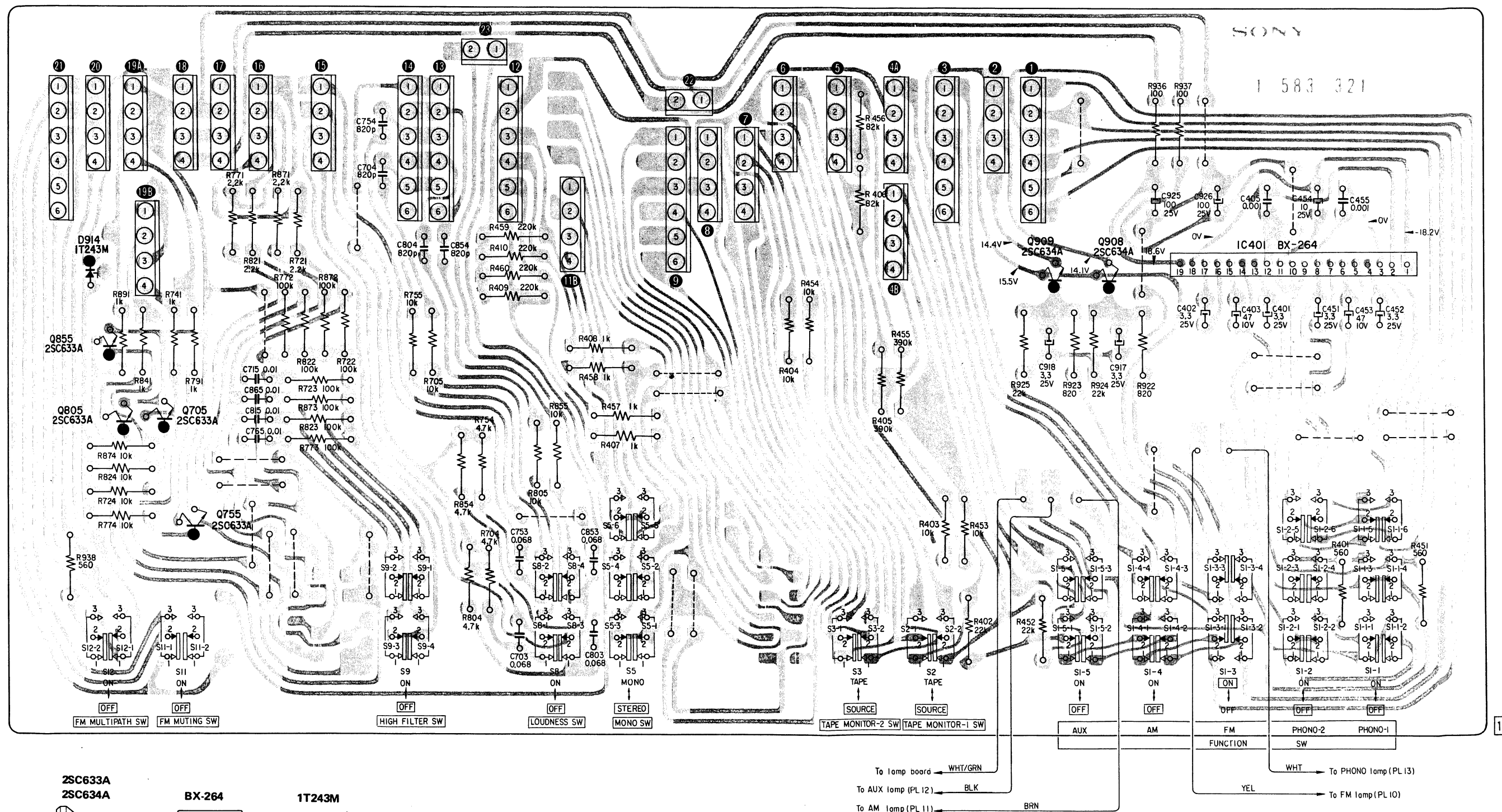
4-7. MOUNTING DIAGRAM SQ Decoder board

— Conductor Side —



4-8. MOUNTING DIAGRAM Switch board

— Conductor Side —

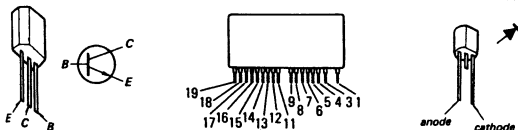


2SC633A

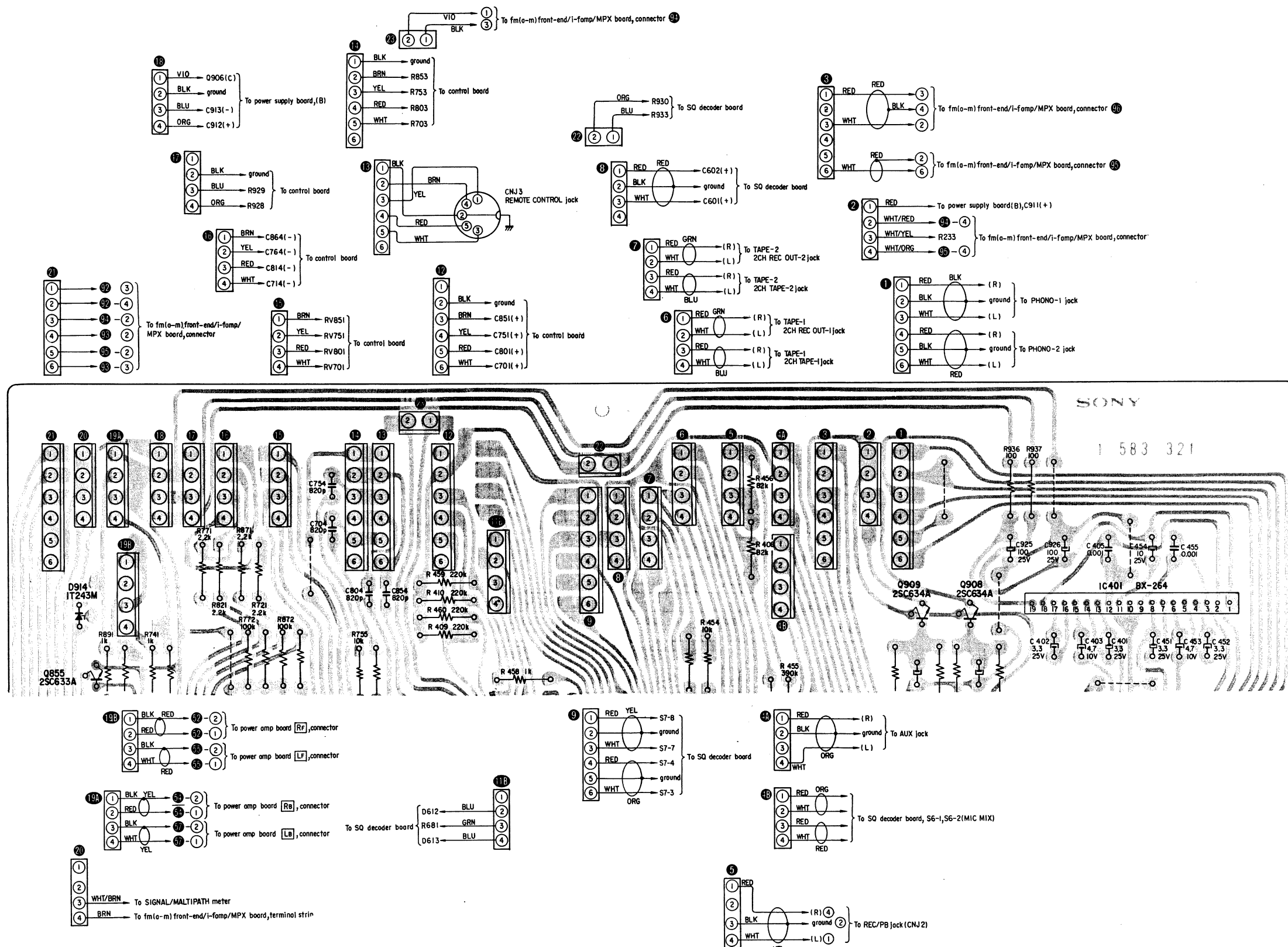
2SC634A

BX-264

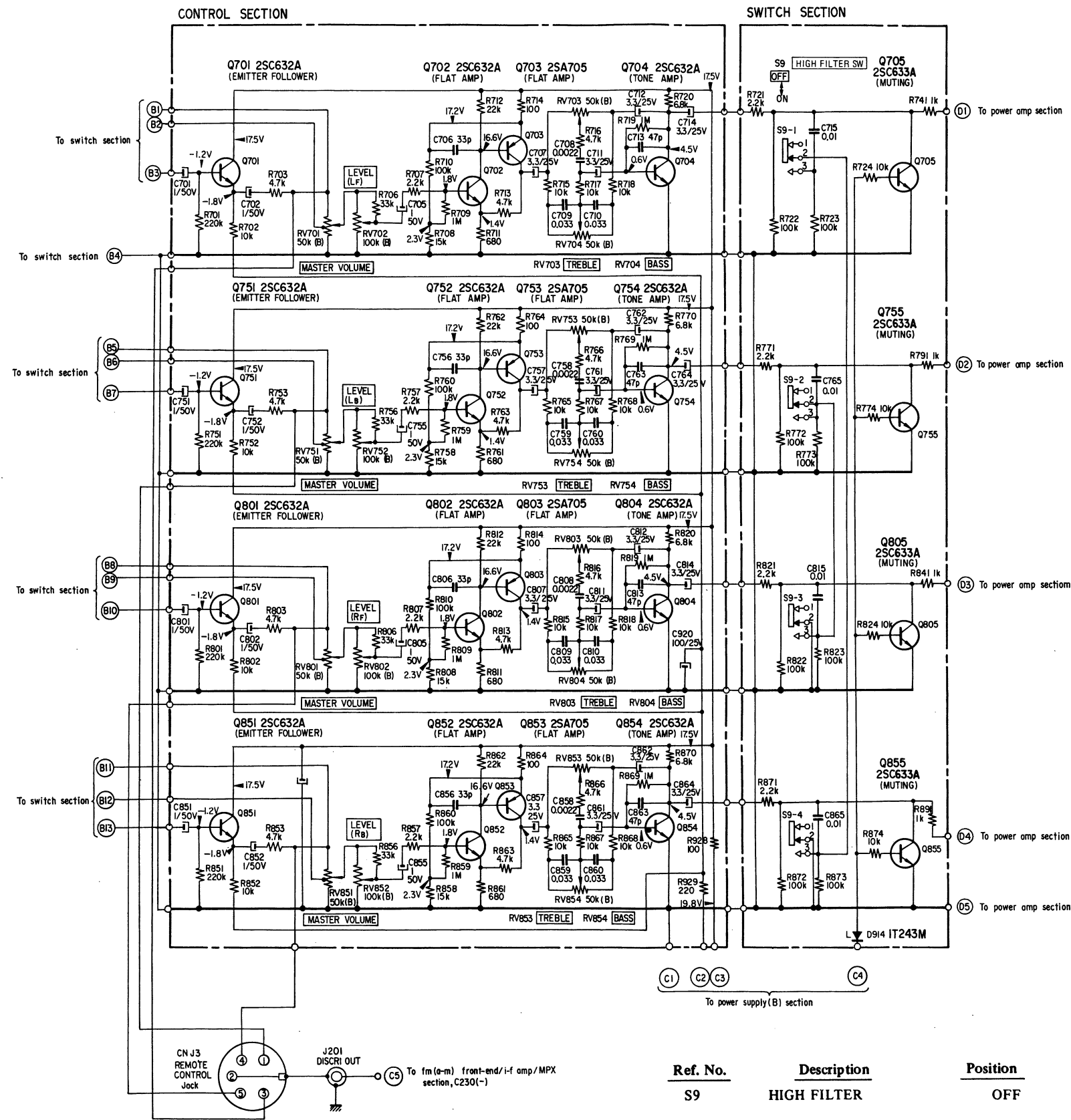
1T243M



4-9. WIRING DIAGRAM Switch board



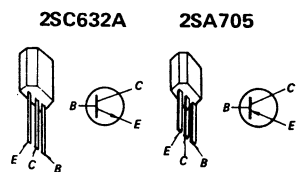
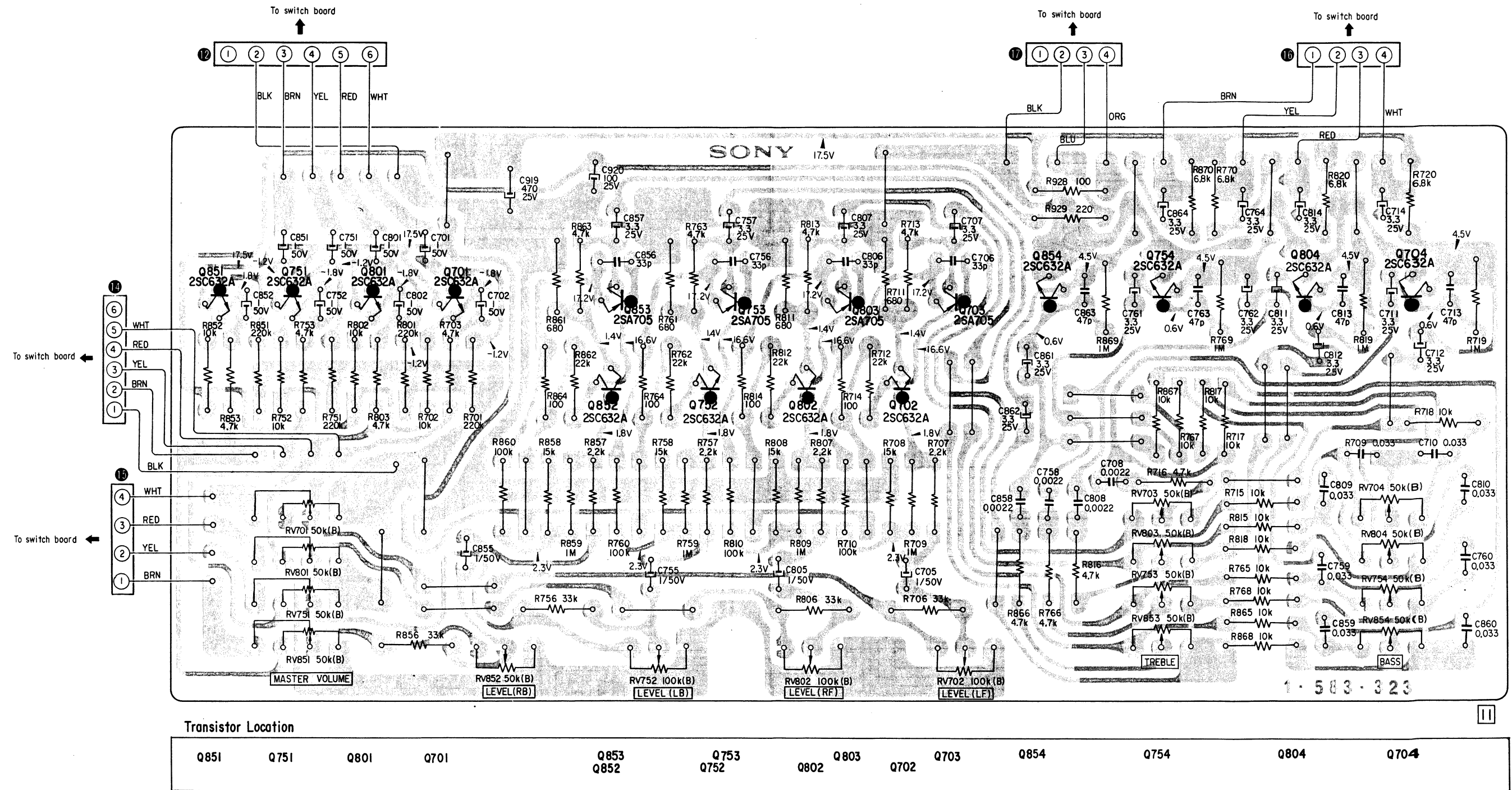
4-10. SCHEMATIC DIAGRAM Control section



Note:
All resistance values are in ohms. k = 1,000 M = 1,000 k
All capacitance values are in μ F except as indicated with p, which means μ F.
All voltages are dc measured with a VOM which has an input impedance of 20 k ohms/volt. No signal in.
Voltage variations may be noted because of normal production tolerances.

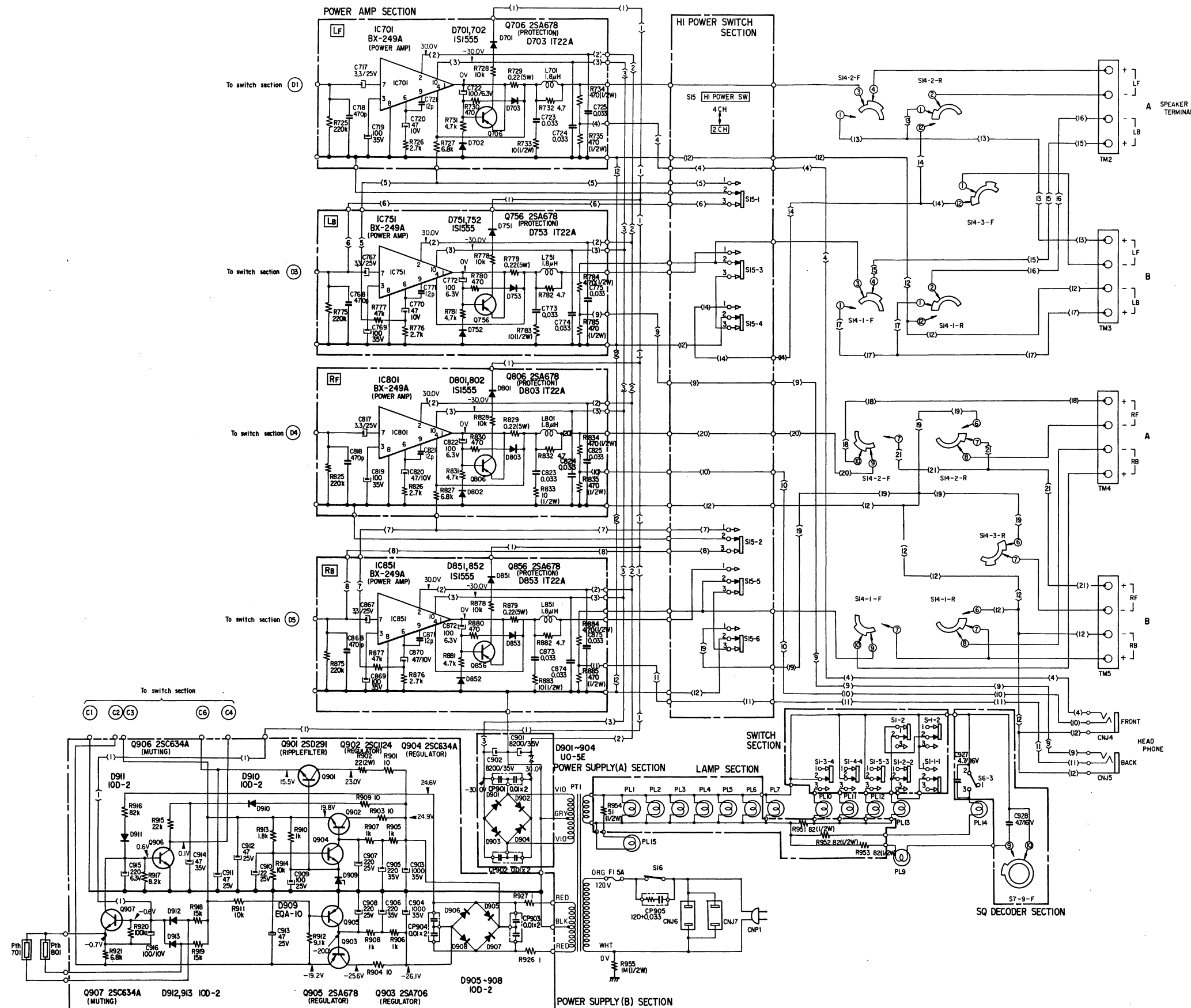
4-11. MOUNTING DIAGRAM Control board

— Conductor Side —

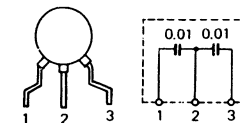


USA Model (serial no. 800,001~802,200)
Canada Model

4-12. SCHEMATIC DIAGRAM Power Amp/Power Supply (A,B)/HI-Power Switch/Lamp section



CP901~904



Ref. No.	Description
PL7	SIGNAL/MULTIPASS meter lamp
PL9	SQ lamp
PL10	FM lamp
PL11	AM lamp
PL12	AUX lamp
PL13	PHONO lamp
PL14	MIC lamp
PL15	dial pointer lamp

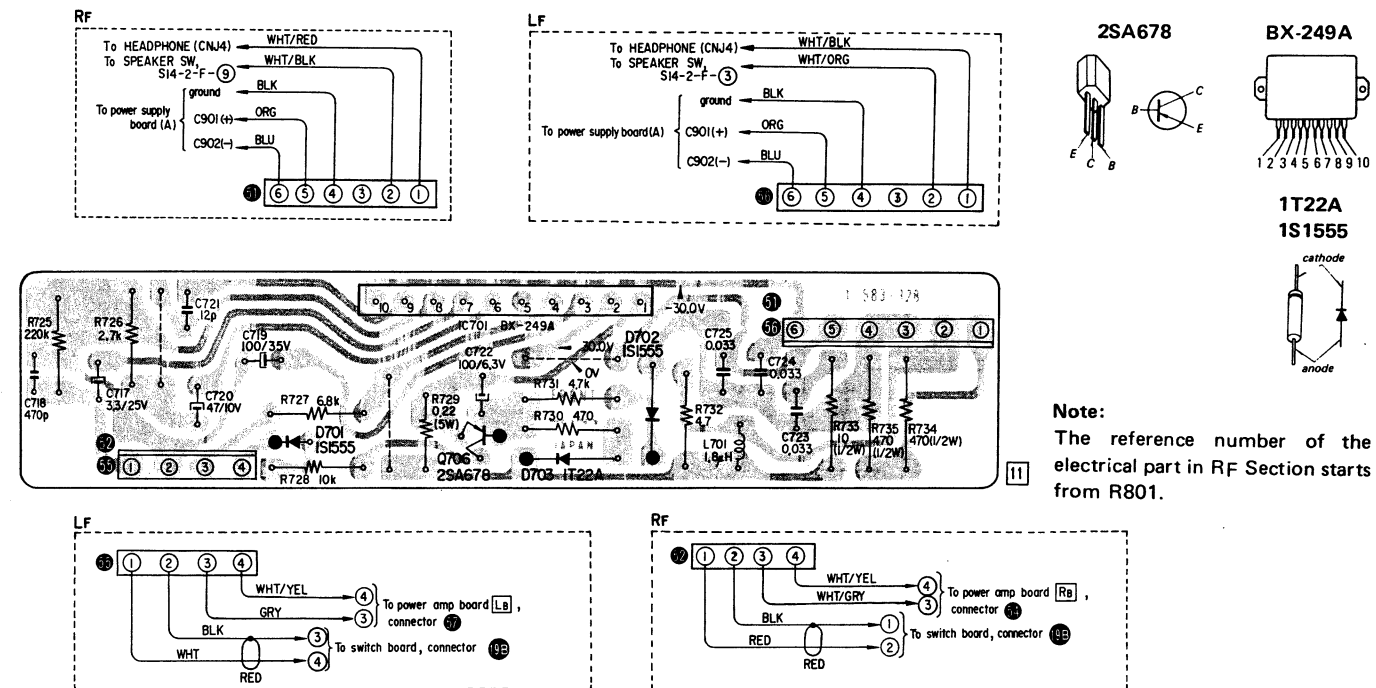
Ref. No.	Description	Position
S14	SPEAKER SELECTOR SW (A + B - A - OFF - B)	A + B
S15	HI-POWER SW (2CH - 4CH)	2CH
S16	POWER SW	ON

Note:

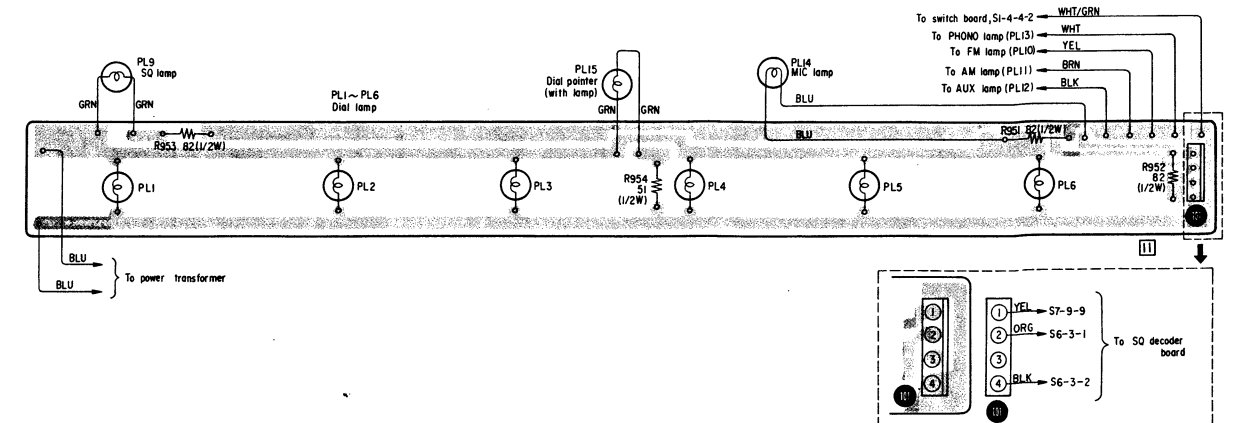
All resistance values are in ohms. k = 1,000 M = 1,000 k
All capacitance values are in μ F except as indicated with p, which means μ F.
All voltages are dc measured with a VOM which has an input impedance of 20k ohms/volt. No signal in.
Voltage variations may be noted because of normal production tolerances.

USA Model (serial no. 800,001~802,200)
Canada Model

4-13. MOUNTING DIAGRAM Power Amp board (Front)
— Conductor Side —

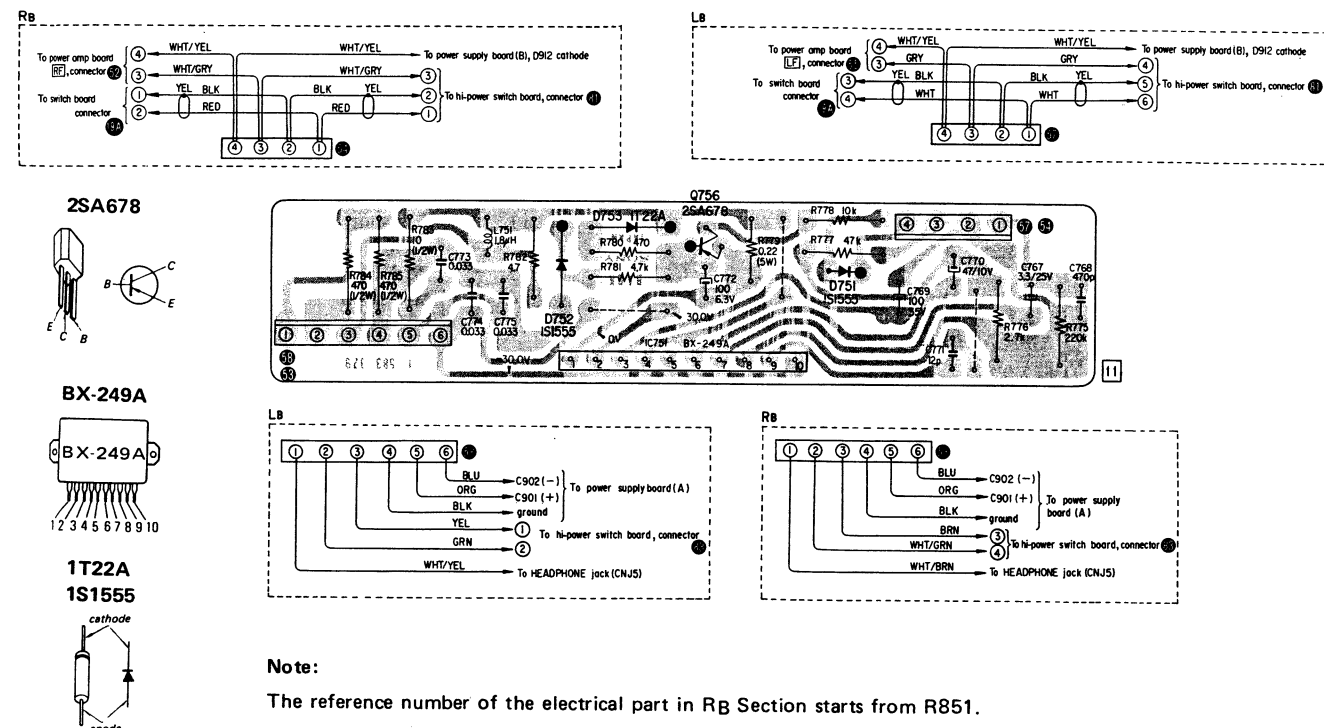


4-15. MOUNTING DIAGRAM Lamp board
— Conductor Side —



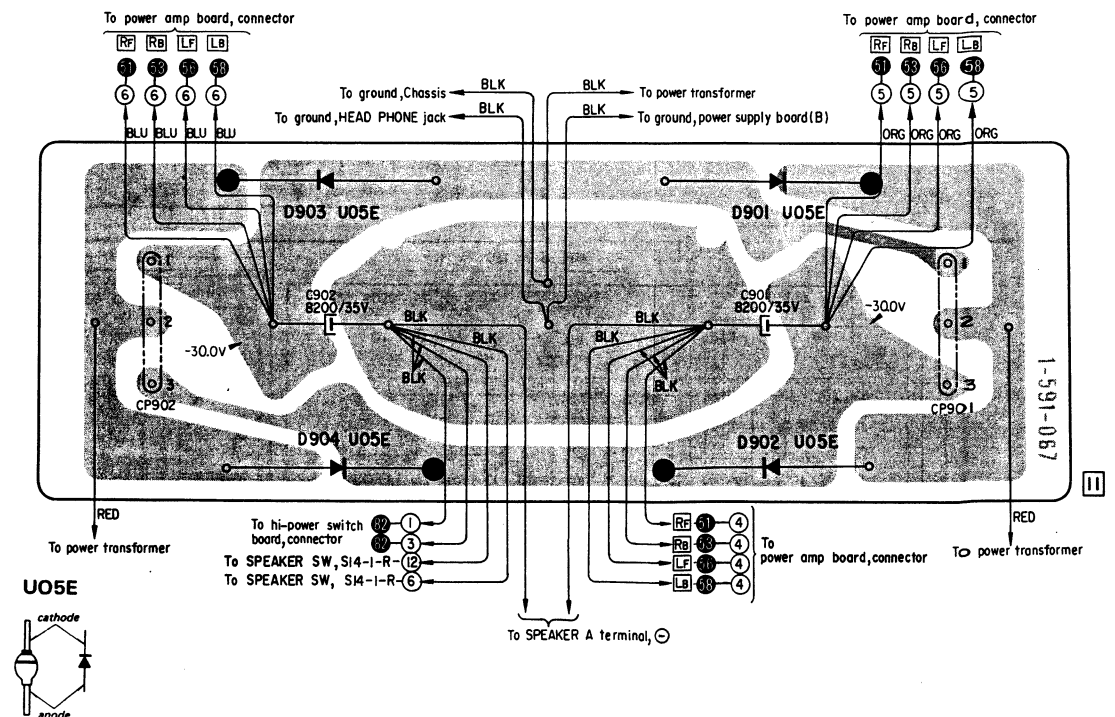
USA Model (serial no. 800,001~802,200)
Canada Model

4-14. MOUNTING DIAGRAM Power Amp board (Back)
— Conductor Side —



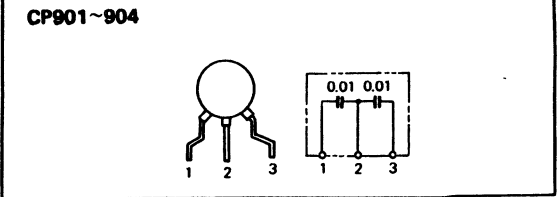
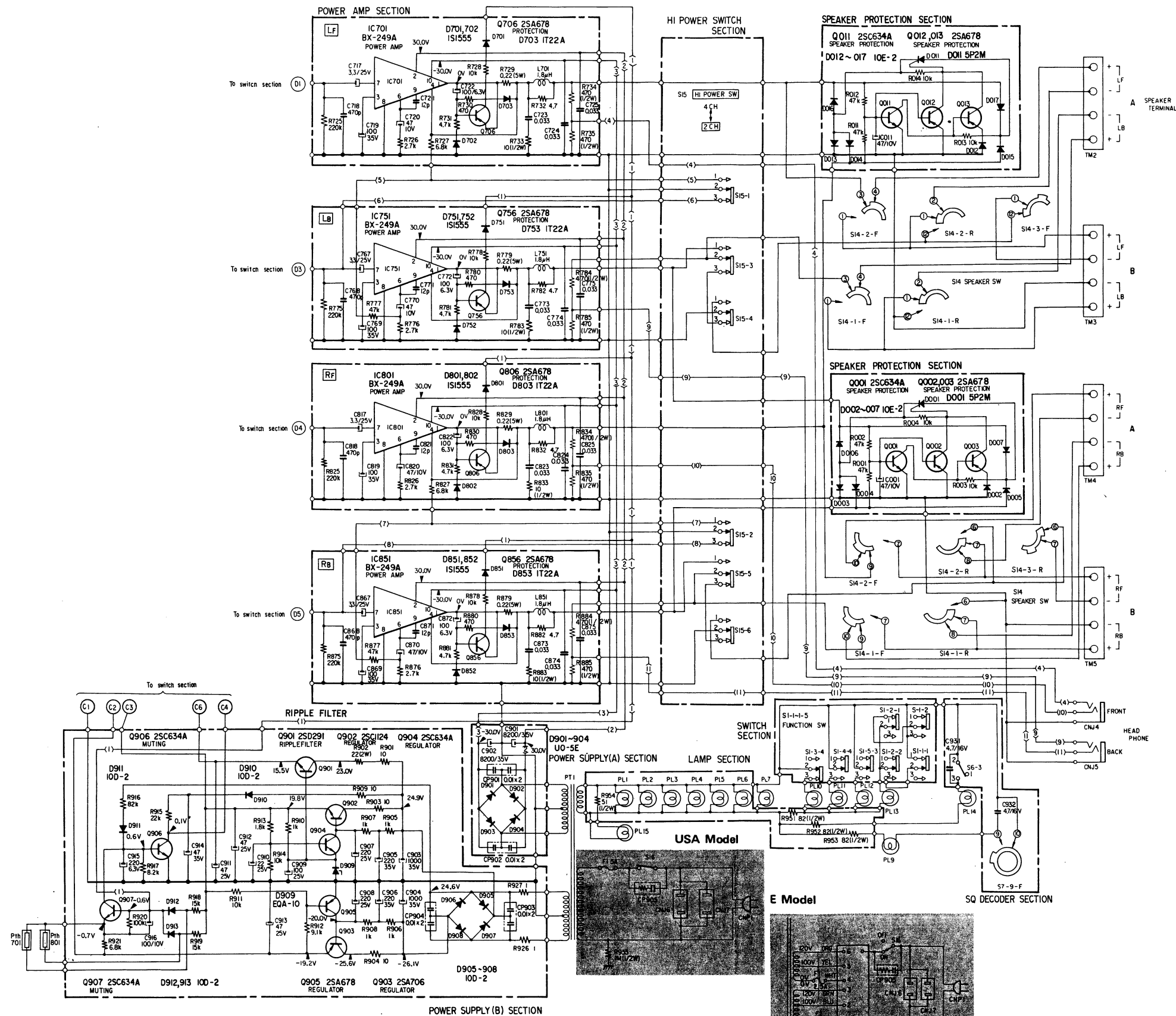
USA Model (serial no. 800,001~802,200)
Canada Model

4-16. MOUNTING DIAGRAM Power Supply (A) board
— Conductor Side —



USA Model (serial no. 802,201~)
E Model

4-17. SCHEMATIC DIAGRAM Power Amp/Power Supply (A,B)/HI-Power Switch/Lamp/Speaker Protection section



Ref. No.	Description
PL7	SIGNAL/MULTIPASS meter lamp
PL9	SQ lamp
PL10	FM lamp
PL11	AM lamp
PL12	AUX lamp
PL13	PHONO lamp
PL14	MIC lamp
PL15	dial pointer lamp

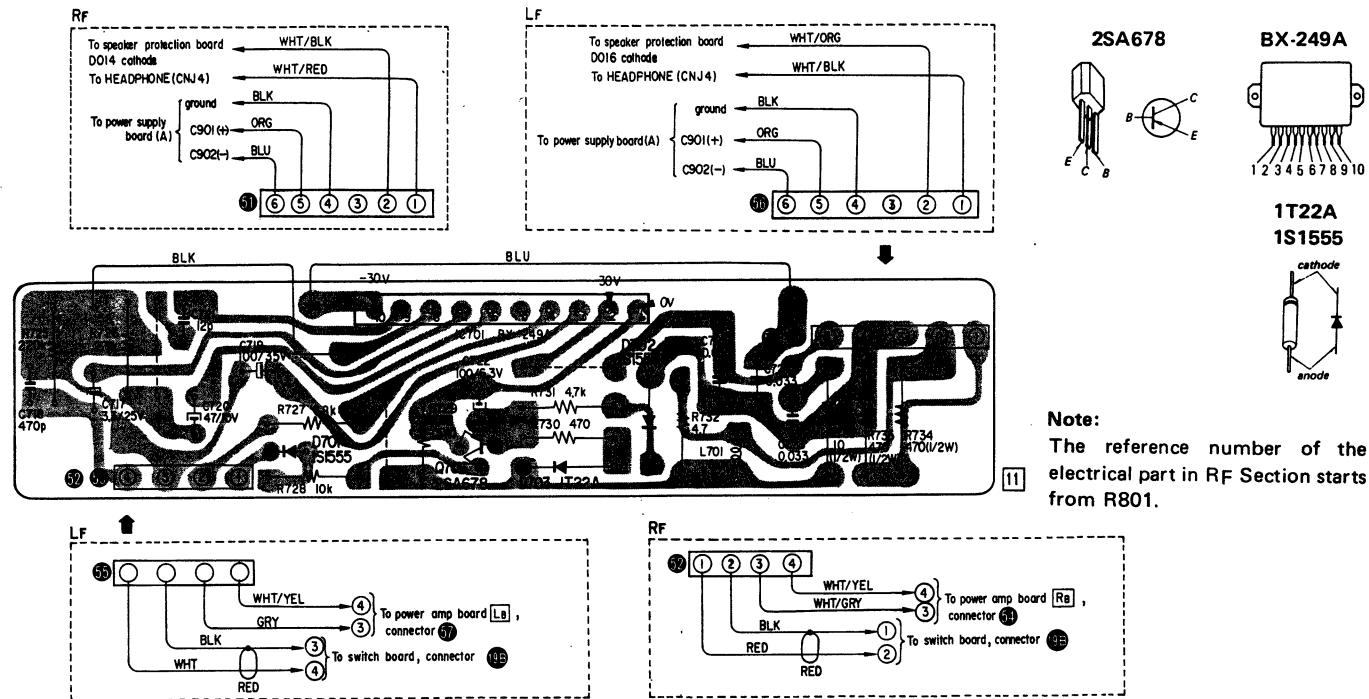
Ref. No.	Description	Position
S14	SPEAKER SELECTOR SW (A + B - A - OFF - B)	A + B
S15	HI-POWER SW (2CH - 4CH)	2CH
S16	POWER SW	ON

Note: All resistance values are in ohms. k = 1,000, M = 1,000k.
All capacitance values are in μ F except as indicated with p, which means μ F.
All voltages are dc measured with a VOM which has an input impedance of 20k ohms/volt. No signal in.
Voltage variations may be noted because of normal production tolerances.

SQR-6750

USA Model (serial no. 802,201~)
E Model

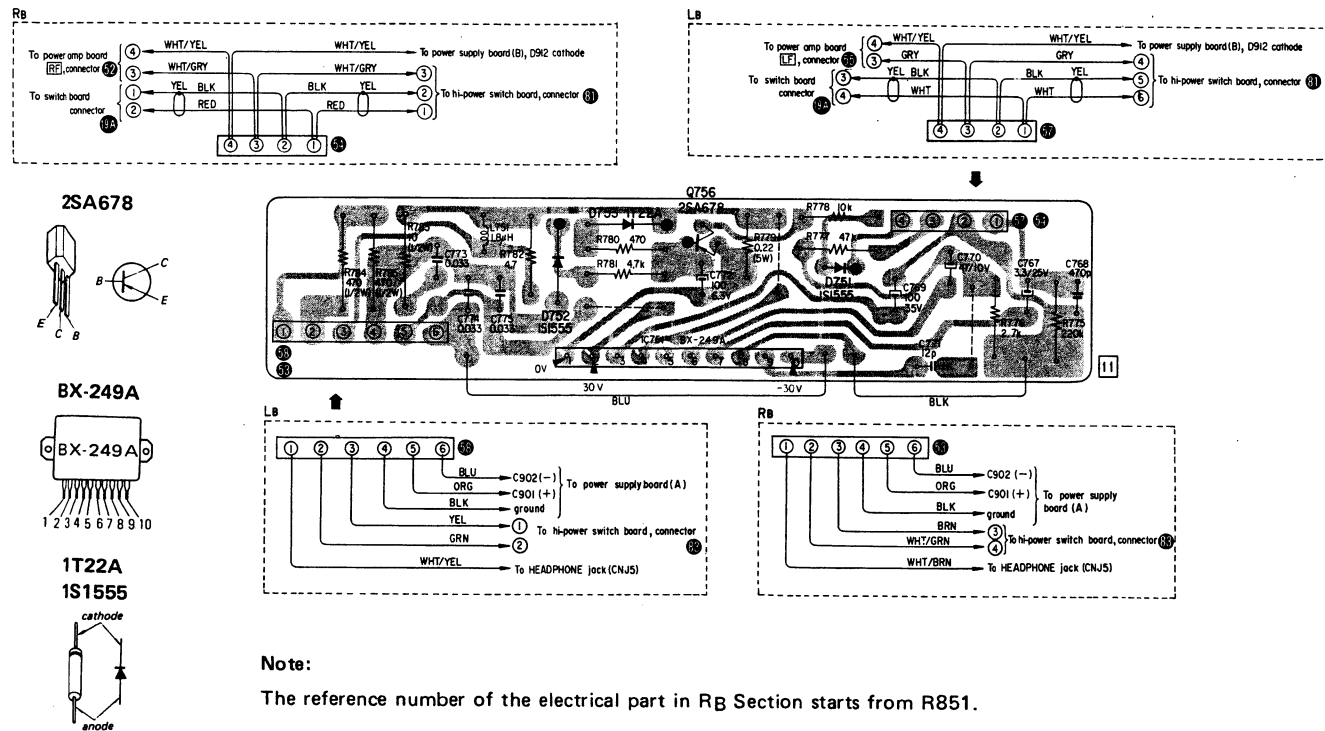
4-18. MOUNTING DIAGRAM Power Amp board (Front)
— Conductor Side —



USA Model (serial no. 802,201~)
E Model

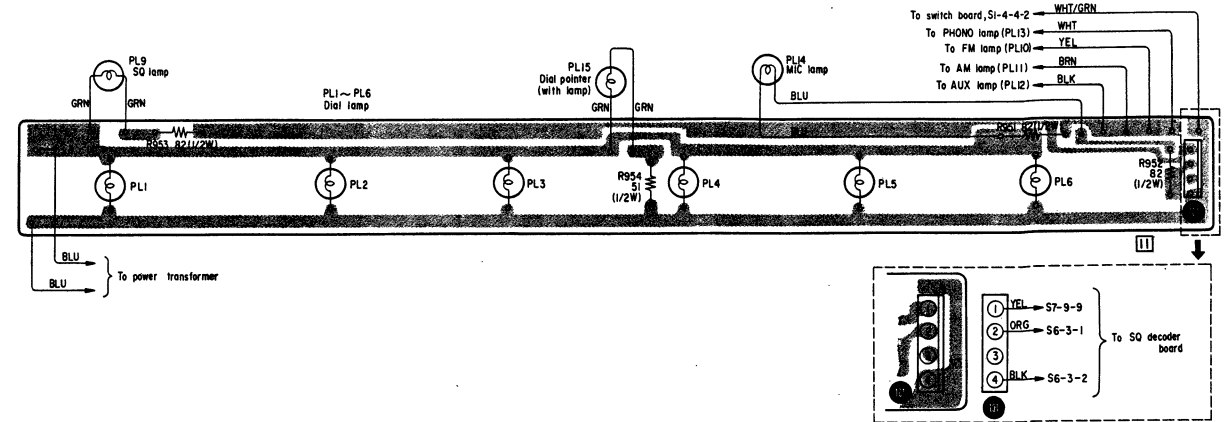
4-19. MOUNTING DIAGRAM Power Amp board (Back)

— Conductor Side —



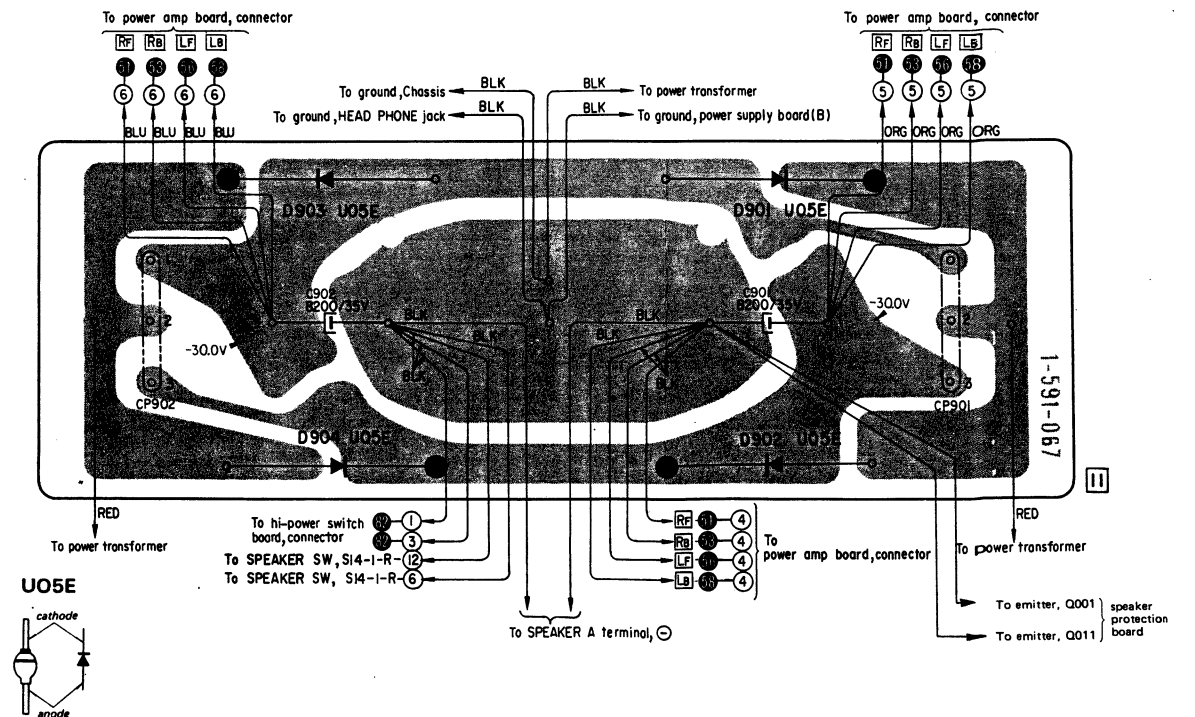
Note:
The reference number of the electrical part in R_B Section starts from R851.

4-20. MOUNTING DIAGRAM Lamp board
— Conductor Side —

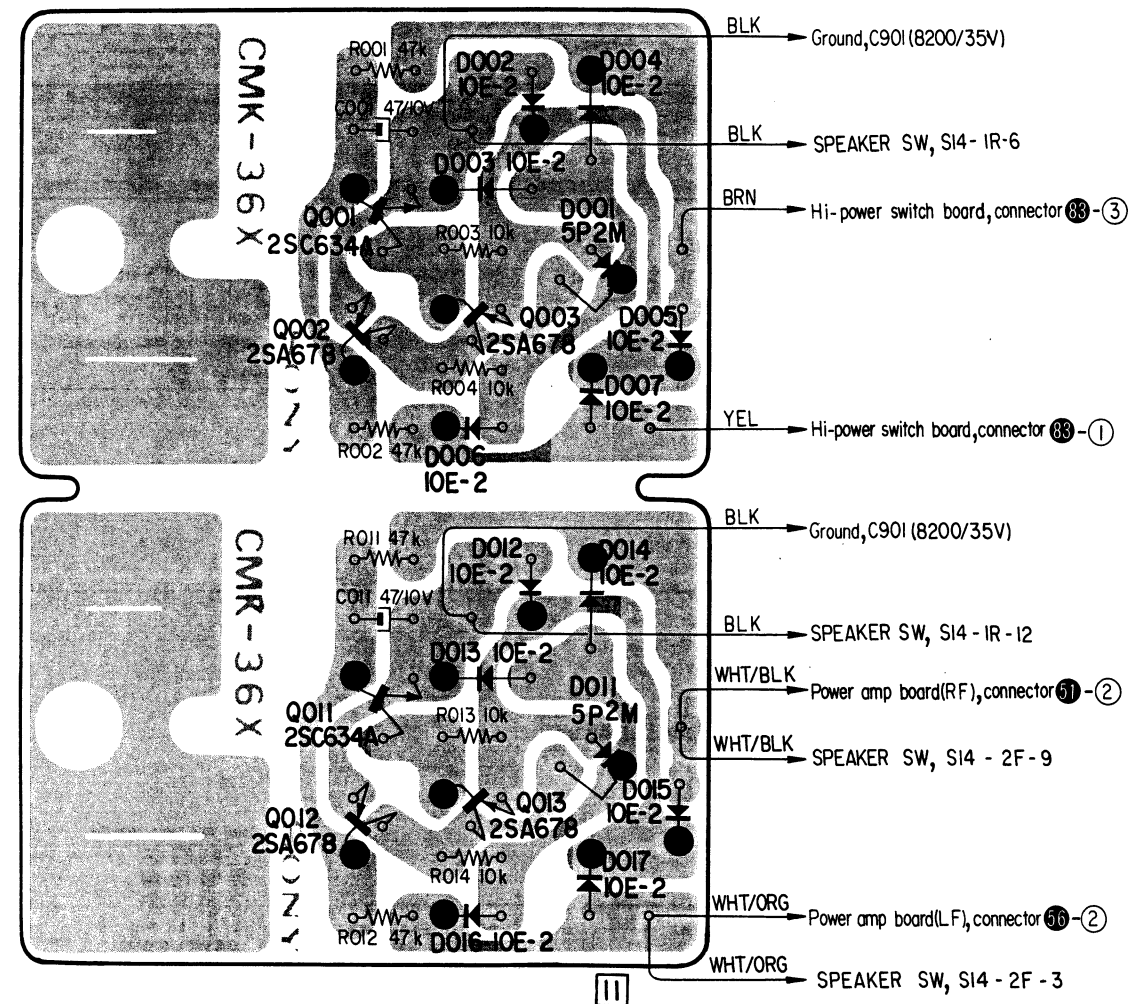


USA Model (serial no. 802,201~)
E Model

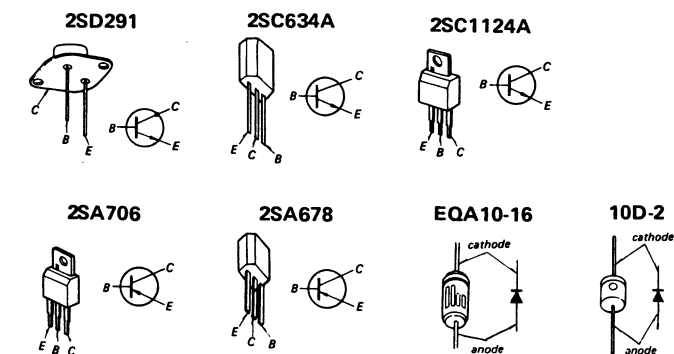
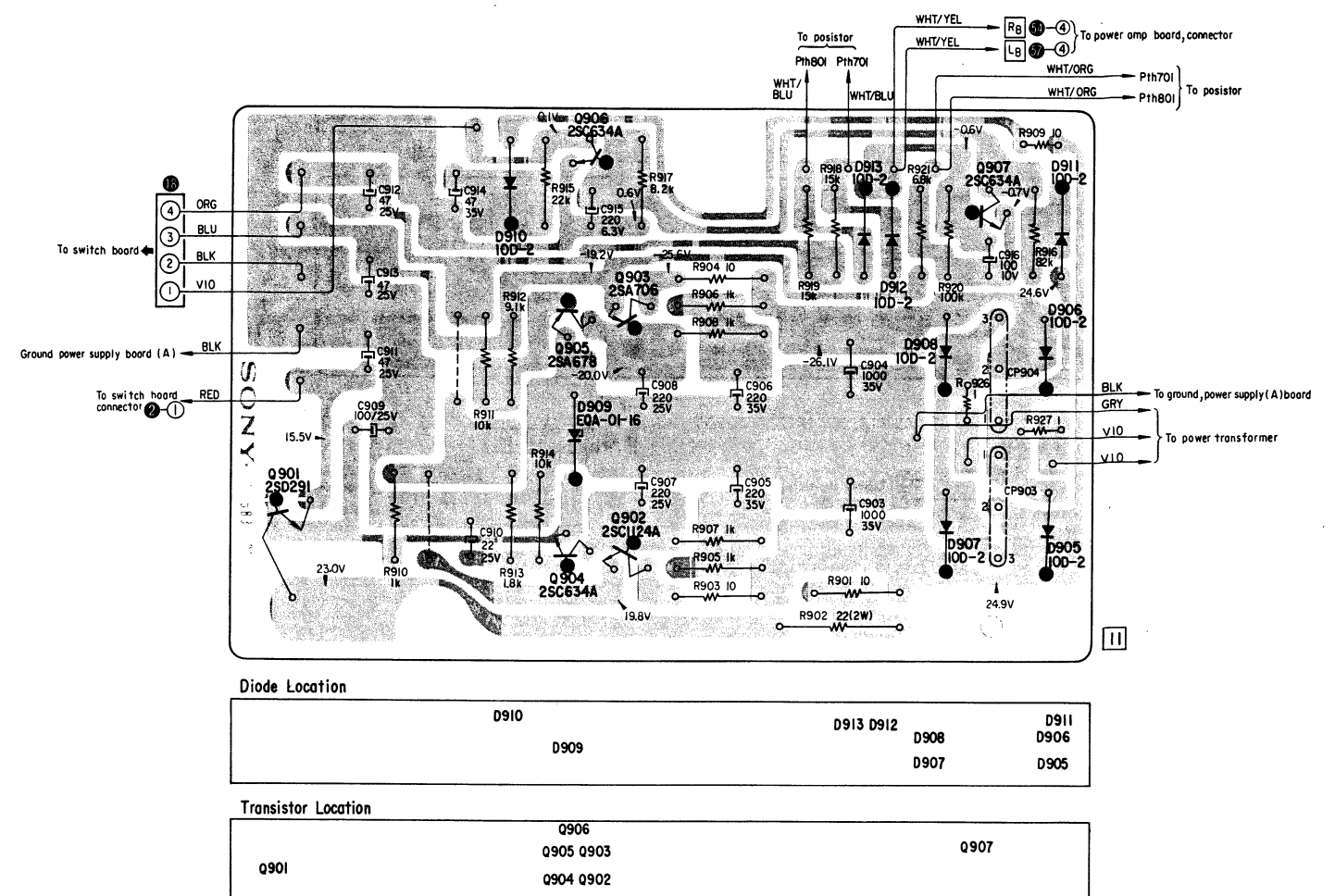
4-21. MOUNTING DIAGRAM Power Supply (A) board
 — Conductor Side —



4-22. MOUNTING DIAGRAM Speaker Protection board
— Conductor Side —

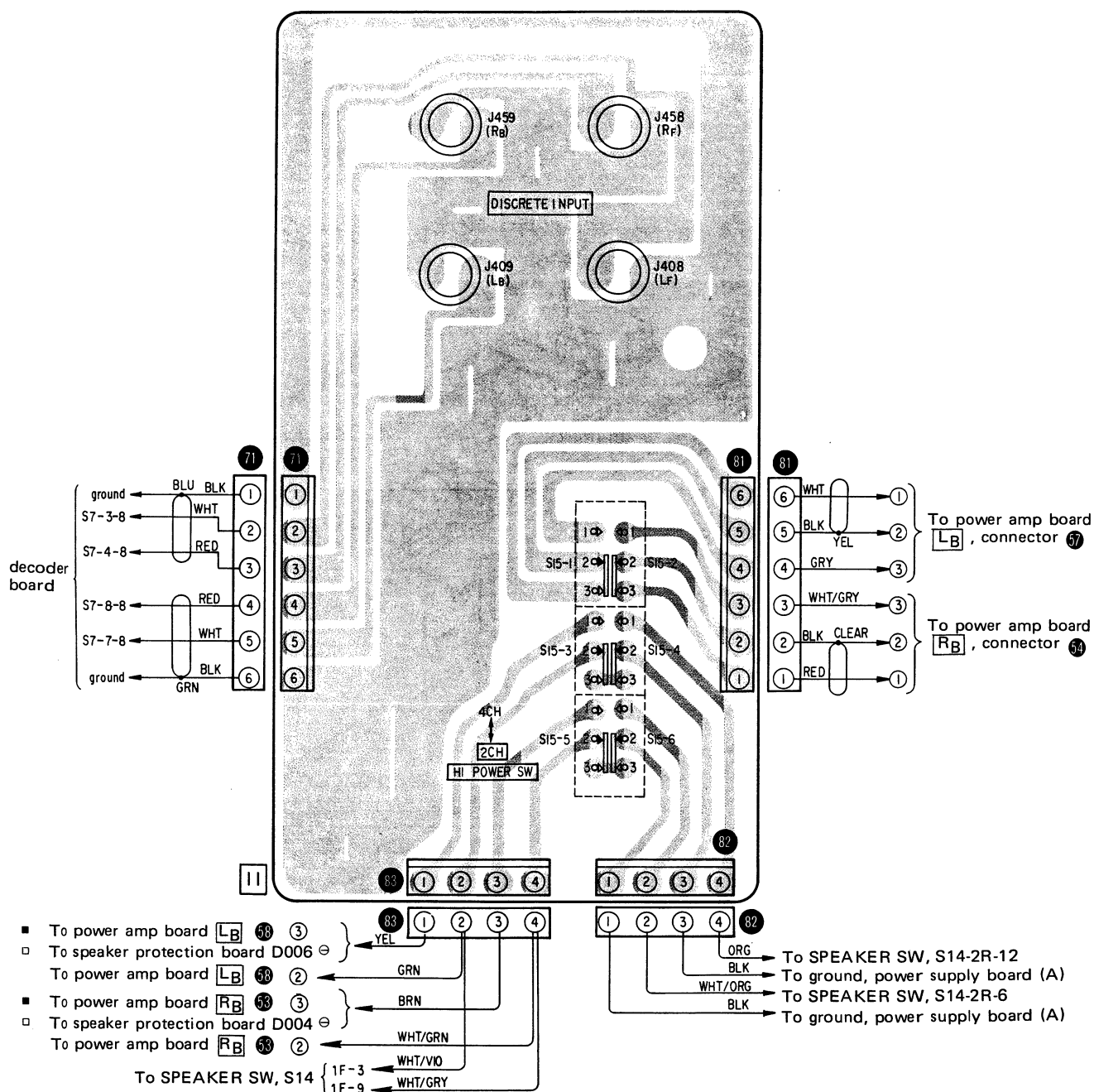


4-23. MOUNTING DIAGRAM Power Supply (B) board
– Conductor Side –



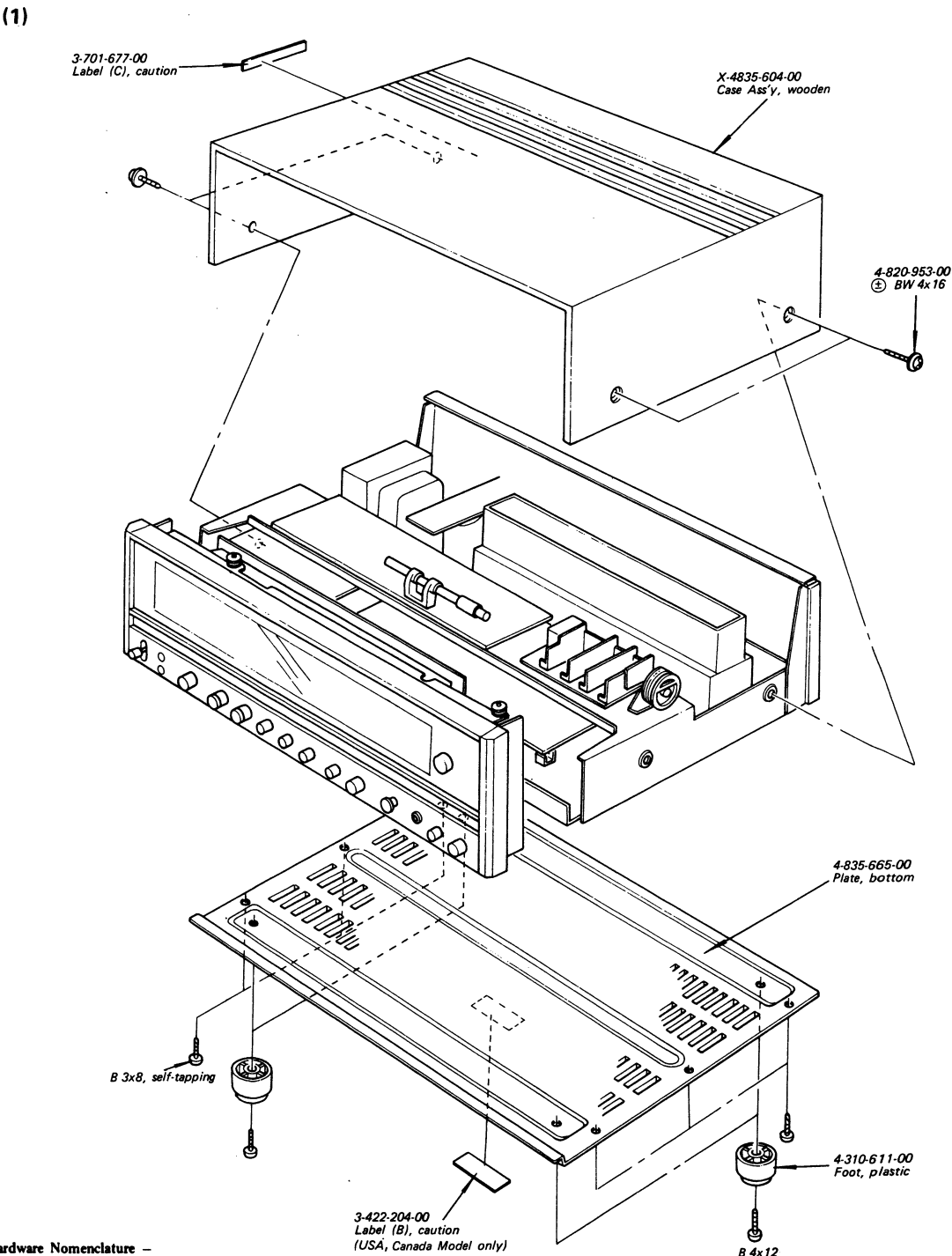
4-24. MOUNTING DIAGRAM HI-Power Switch board

— Conductor Side —



■	USA Model (serial no. 800,001~802,200) Canada Model
□	USA Model (serial no. 802,201~) E Model

SECTION 5
EXPLODED VIEWS



— Hardware Nomenclature —

P	- Pan Head Screw	⊕	SC	- Set Screw	⊕
PS	- Pan Head Screw with Spring Washer	⊕	E	- Retaining Ring (E Washer)	⊕
K	- Flat Countersunk Head Screw	⊕		W	- Washer
B	- Binding Head Screw	⊕		SW	- Spring Washer
RK	- Oval Countersunk Head Screw	⊕		LW	- Lock Washer
T	- Truss Head Screw	⊕		N	- Nut
R	- Round Head Screw	⊕			
F	- Flat Finlister Head Screw	⊕			

— Example —

⊕ P 3x10

Type of Slot

Length in mm (L)

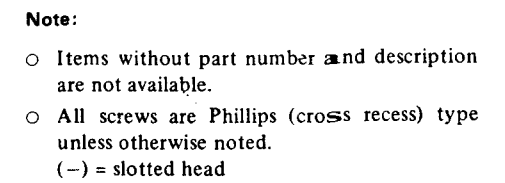
Diameter in mm (D)

Type of Head

Note:

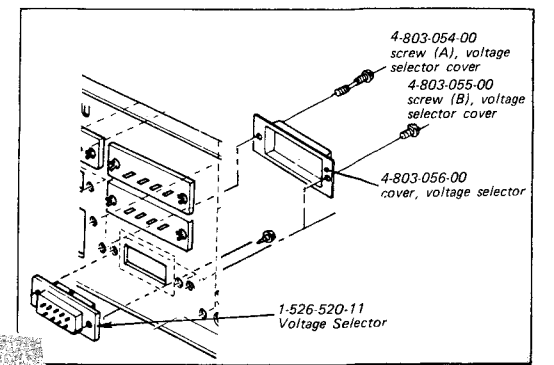
- Items without part number and description are not available.
- All screws are Phillips (cross recess) type unless otherwise noted.
- (-) = slotted head

(2)



SQR-6750

 USA Model (serial no. 802,201~) E Model	US = USA Model CND = Canada Model E = E Model
---	---



E Model

SECTION 6 ELECTRICAL PARTS LIST

<u>Ref. No.</u>	<u>Part No.</u>	<u>Description</u>	<u>Ref. No.</u>	<u>Part No.</u>	<u>Description</u>
CIRCUIT BOARDS					
	A-4351-005-A	Fm (A-m) Front End/I-F Amp/MPX (TCB-031W2A), complete	Q701(Q751) Q801(Q851)		2SC632A
* A-4370-007-A		SQ Decoder, complete	Q702(Q752) Q802(Q852)		2SC732A
A-4375-020-A		Preamplifier/Control, complete	Q703(Q753) Q803(Q853)		2SA705
A-4388-025-A		Speaker Protection	Q704(Q754) Q804(Q854)		2SC632A
A-4388-043-A		Power Amp (Front), complete	Q705(Q755) Q805(Q855)		2SC633A [2SC634A]
A-4388-044-A		Power Amp (Back), complete	Q706(Q756) Q806(Q856)		2SA678
A-4394-009-A		Power Supply (B), complete	Q901		2SD291
A-4409-007-A		Switch, complete	Q902		2SC1124
1-583-327-00		Power Supply (A)	Q903		2SA706
1-583-362-00		Dial Lamp	Q904		2SC634A
1-583-361-00		HI-POWER	Q905		2SA678
* This is a new SQ Decoder Circuit board which replaces the former one.			Q906~Q909		2SC634A
SEMICONDUCTORS					
Transistors					
Q001(011)		2SC634A			ICs
Q002(012)		2SA678	IC201		CX-041
Q003(013)		2SA678	IC202		CX-043
Q101		2SK42	IC401		BX-264
Q102		2SK23A	IC601		CX-5
Q103		2SC710	IC602		CX-949
Q201~Q204		2SC710	IC603		CX-718
Q205		2SC403C	IC604		TX-429D
Q206		2SC945 [2SC1364]	IC701(IC751) IC801(IC851)		BX-249A
Q207		2SK23A			
Q108		2SK23A			
Q209~Q211		2SC945 [2SC1364]			
Q212(Q213)		2SC900 [2SC632A]			Diodes
Q214(Q215)		2SC900 [2SC632A]	D001(011)		5P2M
Q301		2SC710	D002~007 (D012~017)		10E-2
Q302		2SC403C	D101		1S1555
Q303		2SC710	D201		1T22A
Q304		2SC710	D202		1S1555
Q501		2SA705	D203~D206		1T22A
Q502		2SC632A	D207		1S1555
Q601		2SC634A	D208		1T22A
Q602~605		2SC632A	D209		1T22A
			D210		1S1555

[] : Substitute Semiconductors

■	USA Model (serial no. 800,001~802,200) Canada Model
□	USA Model (serial no. 802,201~) E Model

<u>Ref. No.</u>	<u>Part No.</u>	<u>Description</u>
D301	1S1555	
D302	1T22A	
D303	1T22A	
D304	1S1555	
D602	VD-1221	
D603	VD-1221	
D604~D606	1S1555	
■ D607	1S1555	
□ D607	1T22A	
D608	VD-1221	
D609	VD-1221	
D610	1S1555	
D611	1S1555	
D612~D614	1T243M	
(D701(D751) D801(D851) D702(D752) D802(D852) D703(D753) D803(D853))	1S1555 1S1555	
D901~D904	UO-5E (UO-5G)	
D905~D908	10D-2	
D909	EQA-01-16 (EQB-01-16)	
D910~D913	10D-2	
D914	1T243M	

Pth701
(Pth801) 1-800-340-00 Posistor

TRANSFORMERS, COILS AND INDUCTORS

B1	1-417-014-00	Balun
CFT301	1-403-963-00	CFX, 455 kHz
IFT101	1-403-556-00	Transformer, FM i-f; 10.7 MHz
IFT201	1-403-964-00	Transformer, discriminator
IFT301	1-403-149-00	Transformer, AM i-f; 455 kHz
L101	1-401-602-00	Coil, fm antenna
L102	1-425-853-00	Coil, fm rf
L103	1-425-853-00	Coil, fm rf
L104	1-405-657-00	Coil, fm osc
L105	1-407-161-00	Microinductor, 22 μ H
L201	1-407-418-00	Shielded Inductor, 22 mH
L202	1-425-729-00	Transformer, switching
L301	1-401-599-21	Ferrite-rod Antenna, a-m
L302	1-407-169-00	Microinductor, 100 μ H
(L701(L751) L801(L851))	1-407-592-00	Microinductor, 1.8 μ H

<u>Ref. No.</u>	<u>Part No.</u>	<u>Description</u>
L303	1-405-656-00	Coil, a-m osc
MU201	1-464-009-00	MPX Unit
PT1	1-442-316-00	Transformer, power (USA-Canada Model)
PT1	1-442-381-00	Transformer, power (E Model)

CAPACITORS

All capacitors are in μ F and are electrolytic type unless otherwise indicated (p = μ F). 50 or less working volts are omitted except for the electrolytic type capacitors.

C001(011)	1-121-352-11	47	10 V
C101	1-101-884-11	56 p	ceramic
C102	1-102-959-11	22 p	ceramic
C103	1-102-942-11	5 p ± 0.5 p	ceramic
C104	1-102-953-11	18 p	ceramic
C105	1-102-953-11	18 p	ceramic
C106	1-102-949-11	12 p	ceramic
C107	1-102-947-11	10 p	ceramic
C108	1-102-257-11	2200 p	ceramic
C109	1-102-978-11	220 p	ceramic
C110	1-102-257-11	2200 p	ceramic
C111	1-101-924-11	0.022	ceramic
C112	1-101-924-11	0.022	ceramic
C113	1-102-804-11	20 p	ceramic
C114	1-101-976-11	10 p ± 0.5 p	ceramic
C115	1-102-716-11	12 p	ceramic
C116	1-102-519-11	36 p	ceramic
C117	1-101-924-11	0.022	ceramic
C118	1-101-924-11	0.022	ceramic
C201~C204	1-101-919-11	0.0022	ceramic
C205	1-101-924-11	0.022	ceramic
C206	1-121-391-11	1	50 V
C207	1-121-352-11	47	10 V
C208	1-121-391-11	1	50 V
C209	1-121-352-11	47	10 V
C210	1-101-924-11	0.022	ceramic
C211	1-101-924-11	0.022	ceramic
C212	1-101-919-11	0.0022	ceramic
C213	1-102-978-11	220 p	ceramic
C214	1-101-919-11	0.0022	ceramic
C215	1-102-978-11	220 p	ceramic
C216	1-102-978-11	220 p	ceramic
C217	1-121-651-11	10	16 V
C218	1-101-924-11	0.022	ceramic

■	USA Model (serial no. 800,001~802,200) Canada Model
□	USA Model (serial no. 802,201~) E Model

<u>Ref. No.</u>	<u>Part No.</u>	<u>Description</u>		<u>Ref. No.</u>	<u>Part No.</u>	<u>Description</u>	
C219	1-101-925-11	0.047	ceramic	C312	1-101-924-11	0.022	ceramic
C220	1-101-924-11	0.022	ceramic	C313	1-101-924-11	0.022	ceramic
C221	1-101-919-11	0.0022	ceramic	C314	1-121-409-11	47	16 V
C222	1-101-919-11	0.0022	ceramic	C315	1-121-651-11	10	16 V
C223	1-121-392-11	3.3	50 V	C316	1-101-924-11	0.022	ceramic
C224	1-101-924-11	0.022	ceramic	C317	1-101-924-11	0.022	ceramic
C225	1-121-391-11	1	50 V	C318	1-127-019-11	0.1	10 V solid aluminum
C226	1-121-409-11	47	16 V	C319	1-121-391-11	1	50 V
C227	1-101-924-11	0.022	ceramic	C320	1-101-884-11	56 p	ceramic
C228	1-121-392-11	3.3	50 V	C321	1-101-924-11	0.022	ceramic
C229	1-121-391-11	1	50 V	C322	1-105-677-12	0.022	mylar
C230	1-121-391-11	1	50 V	C323	1-105-681-12	0.047	mylar
C231	1-102-824-11	470 p	ceramic	C324	1-121-413-11	100	6.3 V
C232	1-102-973-11	100 p	ceramic	C325	1-105-679-12	0.033	mylar
C233	1-102-979-11	240 p	ceramic	C326	1-121-651-12	10	16 V
C234	1-121-352-11	47	10 V	C401(C451)	1-131-206-11	3.3	25 V tantalum
C235	1-121-392-11	3.3	50 V	C402(C452)	1-121-913-11	3.3	25 V
C236	1-121-726-11	0.47	50 V	C403(C453)	1-121-352-11	47	10 V
C237	1-121-413-11	100	6.3 V	C454	1-121-398-11	10	25 V
C238	1-121-421-11	220	16 V	C405(C455)	1-102-074-11	1000 p	50 V
C239	1-103-717-11	470 p	50 V styrol	C501	1-121-913-11	3.3	25 V
C240	1-103-575-11	4700 p	50 V styrol	C502	1-121-398-11	10	25 V
C241	1-121-391-11	1	50 V	C503	1-105-661-12	0.001 ±10%	50 V mylar
C242	1-121-391-11	1	50 V	C504	1-121-404-11	33	25 V
C243	1-105-667-12	0.0033	mylar	C505	1-121-935-11	100	25 V
C244	1-105-667-12	0.0033	mylar	C506	1-121-913-11	3.3	25 V
C245	1-105-663-12	0.0015	mylar	C507	1-105-685-12	0.1	mylar
C246	1-121-409-11	47	16 V	C601	1-121-912-11	1	50 V
C247	1-121-391-11	1	50 V	C602	1-121-912-11	1	50 V
(C248)				C603	1-121-352-11	47	10 V
C249	1-102-973-11	100 p	ceramic	C604	1-121-651-11	10	16 V
(C250)				■ C605~C614	1-121-912-11	1	50 V
C251	1-121-419-11	220	6.3 V	□ C605~C607	1-121-750-11	4.7	50 V elect
(C252)				□ C608~C611	1-121-913-11	3.3	25 V elect
C253	1-121-391-11	1	50 V	□ C612	1-121-912-11	1	50 V elect
(C254)				□ C613	1-121-912-11	1	50 V elect
C301	1-102-947-11	10 p	ceramic	□ C614	1-105-689-12	0.22 ±10%	50 V mylar
C302	1-101-924-11	0.022		C615	1-105-689-12	0.22 ±10%	50 V mylar
C303	1-105-673-12	0.01	mylar	C616~C619	1-121-011-11	0.47	50 V elect
C304	1-101-924-11	0.022		C620	1-105-689-12	0.22 ±10%	50 V mylar
C305	1-101-924-11	0.022		C621	1-121-750-11	4.7	50 V elect
C306	1-102-944-11	7 p ±0.5%	ceramic	C622	1-105-677-12	0.022 ±10%	50 V mylar
C307	1-101-924-11	0.022		C623	1-105-677-12	0.022 ±10%	50 V mylar
C308	1-105-679-12	0.033	mylar	C624	1-121-912-11	1	50 V elect
C309	1-121-391-11	1	50 V	C625~C630	1-105-661-12	0.001 ±10%	50 V mylar
C310	1-121-479-11	22	50 V	C631	1-121-750-11	4.7	50 V elect
C311	1-101-924-11	0.022	ceramic	C641	1-121-912-11	1	50 V elect
				C642	1-121-912-11	1	50 V elect
				C651~C654	1-121-911-11	0.47	50 V
				C655	1-105-685-12	0.1	mylar
				C656	1-105-685-12	0.1	mylar
				C657	1-121-912-11	1	50 V
				C658	1-121-912-11	1	50 V
				C659	1-121-469-11	10	10 V

■	USA Model (serial no. 800,001~802,200) Canada Model
□	USA Model (serial no. 802,201~) E Model

<u>Ref. No.</u>	<u>Part No.</u>	<u>Description</u>	
C660	1-121-469-11	10	10 V
C661	1-105-689-12	0.22	mylar
C662~C665	1-105-661-12	0.001	mylar
C666	1-105-677-12	0.022	mylar
C667	1-105-677-12	0.022	mylar
(C701(C751) C801(C851)	1-121-912-11	1	50 V
(C702(C752) C802(C852)	1-121-912-11	1	50 V
(C703(C753) C803(C853)	1-105-683-12	0.068	mylar
(C704(C754) C804(C854)	1-102-117-11	820p	ceramic
(C705(C755) C805(C855)	1-121-912-11	1	50 V
(C706(C756) C806(C856)	1-102-969-11	33p	ceramic
(C707(C757) C807(C857)	1-121-913-11	3.3	25 V
(C708(C758) C808(C858)	1-105-665-12	0.0022	mylar
(C709(C759) C809(C859)	1-105-679-12	0.033	mylar
(C710(C760) C810(C860)	1-105-679-12	0.033	mylar
(C711(C761) C811(C861)	1-121-913-11	3.3	25 V
(C712(C762) C812(C862)	1-121-913-11	3.3	25 V
(C713(C763) C813(C863)	1-101-881-11	47p	ceramic
(C714(C764) C814(C864)	1-121-913-11	3.3	25 V
(C715(C765) C815(C865)	1-105-673-12	0.01	mylar
(C717(C767) C817(C867)	1-121-392-11	3.3	25 V
(C718(C768) C818(C868)	1-102-114-11	470p	
(C719(C769) C819(C869)	1-123-062-11	100	35 V
(C720(C770) C820(C870)	1-121-352-11	47	10 V
(C721(C771) C821(C871)	1-102-949-11	12p	
(C722(C772) C822(C872)	1-121-413-11	100	6.3 V
(C723(C773) C823(C873)	1-105-679-12	0.033	mylar
(C724(C774) C824(C874)	1-105-679-12	0.033	mylar
(C725(C775) C825(C875)	1-105-679-12	0.033	±10% 50 V mylar
C901	1-123-142-11	8200	35 V
C902	1-121-945-11	1000	35 V

<u>Ref. No.</u>	<u>Part No.</u>	<u>Description</u>	
C903	1-121-945-11	1000	35 V
C904	1-121-945-11	1000	35 V
C905	1-123-063-11	220	35 V
C906	1-123-063-11	220	35 V
C907	1-121-936-11	220	25 V
C908	1-121-936-11	220	25 V
C909	1-121-935-11	100	25 V
C910	1-121-480-11	22	25 V
C911~C913	1-121-410-11	47	25 V
C914	1-121-653-11	47	35 V
C915	1-121-419-11	220	6.3 V
C916	1-121-415-11	100	16 V
C917	1-121-392-11	3.3	25 V
C918	1-121-392-11	3.3	25 V
C919	1-121-940-11	470	25 V
C920	1-121-935-11	100	25 V
C921	1-121-415-11	100	16 V
C922	1-121-415-11	100	16 V
C923~C926	1-121-935-11	100	25 V
C927	1-121-257-11	4.7	16 V
C928	1-121-257-11	4.7	16 V
C931	1-121-257-11	4.7	16 V
(CT301 CT302	1-141-147-00	Capacitor, trimmer	

RESISTORS

All resistors are in Ω ($k = 1,000$, $M = 1,000 k$). The $\frac{1}{4}W$ - $\pm 5\%$ -carbon and-composition type resistors, except special types, are omitted from this list. Refer to the schematic diagram for their resistance value.

R267	1-202-561-11	330	$\frac{1}{2}W$	composition
□ R650	1-206-647-11	200	2W	metal-oxide
□ R651	1-206-648-11	220	2W	metal-oxide
(R729(R779) R829(R879)	1-217-156-11	0.22	5W	metal
(R733(R783) R833(R883)	1-202-525-11	10	$\frac{1}{2}W$	composition
(R734(R784) R834(R884)	1-202-565-11	470	$\frac{1}{2}W$	composition
(R735(R785) R835(R885)	1-202-565-11	470	$\frac{1}{2}W$	composition
R901	1-217-387-11	10	fuse (nonflammable)	
R902	1-206-471-11	22	2W	metal-oxide
R903	1-217-387-11	10	fuse (nonflammable)	
R904	1-217-387-11	10	fuse (nonflammable)	
R909	1-217-387-11	10	fuse (nonflammable)	
R926	1-217-375-11	1	fuse (nonflammable)	
R927	1-217-375-11	1	fuse (nonflammable)	
R930	1-206-648-11	220	2W	metal-oxide
R932	1-206-648-11	220	2W	metal-oxide
R951~R953	1-202-547-11	82	$\frac{1}{2}W$	composition
R954	1-102-542-11	51	$\frac{1}{2}W$	composition
R955	1-202-719-11	1M	$\frac{1}{2}W$	composition

<u>Ref. No.</u>	<u>Part No.</u>	<u>Description</u>
RT201	1-222-763-00	4.7k, adjustable (muting level)
RT202	1-222-761-00	1 k, adjustable (stereo separation adj)
RT203 (RT204)	1-222-764-00	22 k, adjustable output (level adj)
RT601	1-221-979-00	22 k, adjustable (SQ separation adj)
RV501	1-224-464-00	50 k (C), variable (MIC MIX)
RV701 (RV751) RV801 (RV851)	1-224-466-00	50 k (B), variable (MASTER VOLUME)
RV702 (RV752) RV802 (RV852)	1-224-467-00	100 k (B), variable (LEVEL ADJ)
RV703 (RV753) RV803 (RV853)	1-224-465-00	50 k (B), variable (TREBLE)
RV704 (RV754) RV804 (RV854)	1-224-465-00	50 k (B), variable (BASS)

SWITCHES

S1~S4	1-516-571-00	Pushbutton, 7-key (FUNCTION, MONITOR)
S5,S8,S9 (S11,S12)	1-516-572-00	Pushbutton, 5-key (FM, FILTER, LOUDNESS, MONO)
S6		– built in RV501 (MIC MIX) –
S7	1-516-551-00	Rotary/Slide (SYSTEM)
S14	1-516-554-00	Rotary (SPEAKER SELECT)
S15	1-514-447-00	Slide (HI POWER)
S16	1-516-555-00	Lever (POWER)
SE1,SE2	1-514-448-00	Slide (de-emphasis)

FILTERS

CF201	1-527-240-11	Fm I-f, ceramic; 10.70 MHz (red)
	1-527-240-21	Fm I-f, ceramic; 10.67 MHz (blue)
	1-527-240-31	Fm I-f, ceramic; 10.73 MHz (orange)
	1-527-240-41	Fm I-f, ceramic; 10.64 MHz (black)
	1-527-240-51	Fm I-f, ceramic; 10.76 MHz (white)
CF202	1-527-242-11	Fm I-f, ceramic; 10.70 MHz (red)
	1-527-242-21	Fm I-f, ceramic; 10.67 MHz (blue)
	1-527-242-31	Fm I-f, ceramic; 10.73 MHz (orange)
	1-527-242-41	Fm I-f, ceramic; 10.64 MHz (black)
	1-527-242-51	Fm I-f, ceramic; 10.76 MHz (white)

<u>Ref. No.</u>	<u>Part No.</u>	<u>Description</u>
LAMPS		
PL1~PL7	1-518-237-00	Dial/Signal Multipath Meter (with grommet) 8 V 0.3A
PL9	1-518-175-00	SQ, 4.5 V 40 mA
PL10	1-518-172-00	FM, 4.5 V 40 mA
PL11	1-518-173-00	AM, 4.5 V 40 mA
PL12	1-518-174-00	AUX, 4.5 V 40 mA
PL13	1-518-171-00	PHONO, 4.5 V 40 mA
PL14	1-518-170-00	MIC, 4.5 V 40 mA
PL15	1-518-230-00	Pointer, dial; with lamp 8V 40 mA
PL16	1-518-169-00	STEREO, 4.5 V 40 mA

MISCELLANEOUS

CNJ1	1-507-448-00	Jack, MIC
CNJ2	1-509-551-00	Connector, REC/PB
CNJ3	1-509-657-00	Connector, remote control
CNJ4)	1-507-439-00	Jack, HEADPHONE
CNJ5)		
CNJ6)	1-509-403-00	Outlet, ac
CNJ7)		
CNP1 {	1-534-487-00	Cord, power (E Model)
	1-534-526-00	Cord, power (USA Model)
	1-534-985-00	Cord, power (Canada Model)
CP201)	1-231-224-00	Encapsulated Component
(CP202)		
CP601	1-102-356-00	Capacitor, ceramic
CP602)	1-231-266-00	Encapsulated Component
CP603)		
CP901~	1-102-355-00	Capacitor, ceramic
CP904		
CP905	1-231-057-00	Encapsulated Component, 120 Ω + 0.033 μ F
F1	1-532-221-00	Fuse, 5A (USA-Canada Model)
	1-532-418-00	Fuse, 2.5A (E Model)
F2	1-532-418-00	Fuse 2.5A (E Model only)
J201	1-507-411-00	Jack, phono; 1-P
J401~J403	1-507-366-00	Jack, phonó; 6-P
(J451~J453)		
J404~J407	1-507-365-00	Jack, phono; 4-P
(J454~J457)		
J408,J409	1-536-352-00	Jack, phono; 4-P
(J458,J459)		
M1	1-520-204-00	Meter, SIGNAL MULTIPATH
TM1	1-536-469-00	Terminal Strip (ANTENNA)
TM2~TM2	1-535-057-00	Terminal Strip; 4-P (SPEAKER)
TM6	1-535-087-00	Binding Post, GROUND
VS1	1-526-520-00	Voltage Selector (E Model only)
	1-508-684-00	Connector, 2-P
	1-533-989-00	Holder, fuse
	1-535-074-00	Socket, IC
	1-535-089-00	Terminal Post
	1-536-395-00	Terminal Strip, 1L1 (C)

ACCESSORIES AND PACKING MATERIALS

<u>Part No.</u>	<u>Description</u>
X-3701-029-0	Card Ass'y, warranty (USA Model only)
X-4490-002-0	Cloth Ass'y, polishing
1-501-083-21	Ribbon Antenna, fm
1-506-113-00	Phono Plug (2)
3-701-020-00	Bag, plastic; instruction manual
3-701-622-00	Bag, plastic; warranty (Canada Model only)
3-701-647-00	Bag, plastic; set
3-701-730-00	Bag, plastic; IBM card (USA Model only)
3-701-742-00	Card, IBM (USA Model only)
3-780-417-22	Manual, instruction
3-793-105-00	Card, list of authorized service stations (Canada Model only)
3-793-107-00	Card, warranty (Canada Model only)
3-793-616-72	Card, warning; adapting to local power source (E Model only)
3-793-822-31	Card, instruction in French (Canada Model only)
4-835-672-00	Cushion, upper
4-835-673-00	Cushion, lower
4-835-674-00	Cushion, supplementary
4-835-922-00	Carton

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